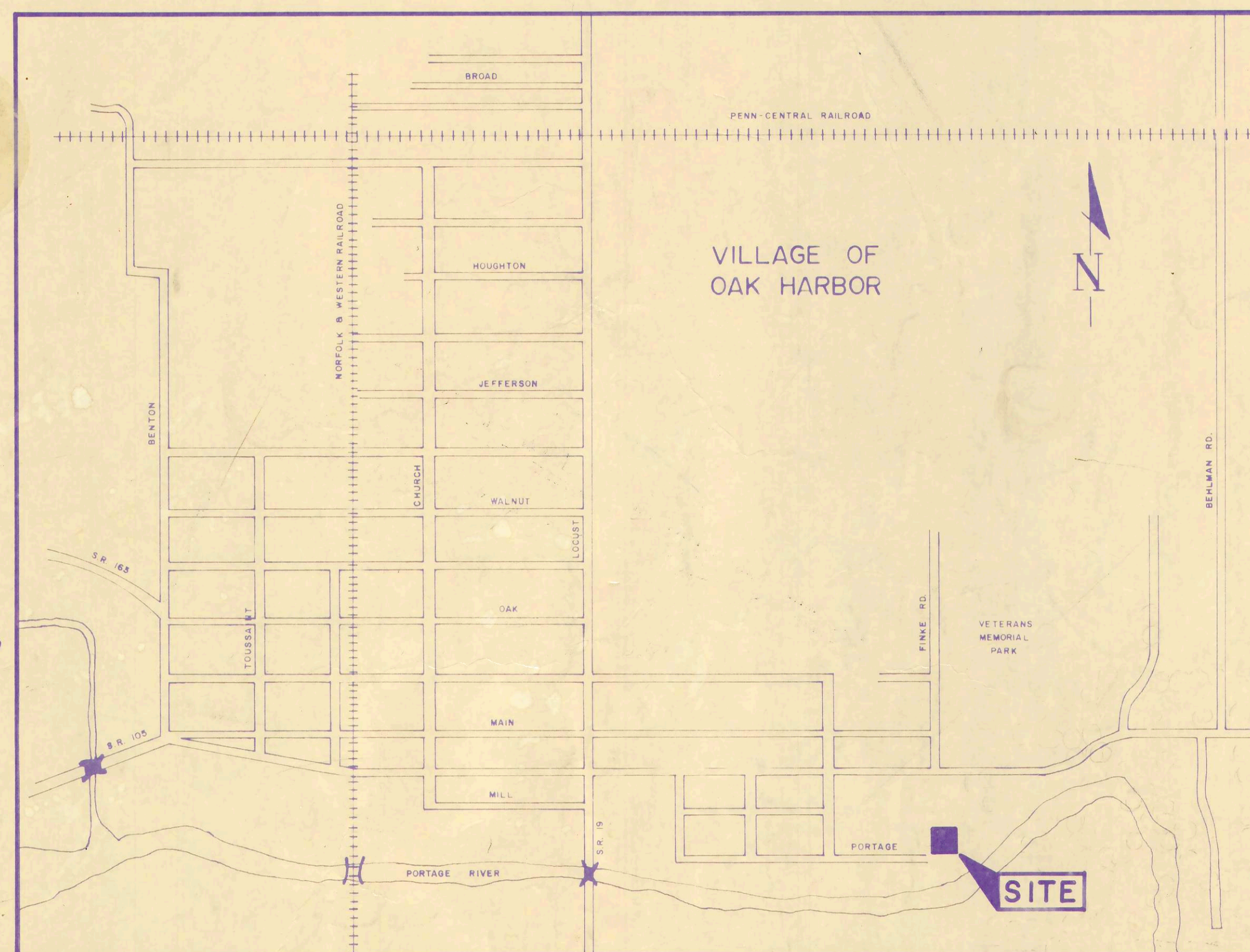


WASTEWATER TREATMENT PLANT IMPROVEMENTS VILLAGE OF OAK HARBOR, OHIO 1989

9364 feet of storm
sewer installed

INDEX OF SHEETS

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NEW LABORATORY BUILDING	2,3,4,
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LOCATION MAP

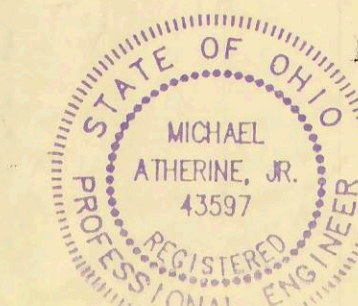
VILLAGE ADMINISTRATOR

DATE

Michael Atherine Jr.
MICHAEL ATHERINE JR. P.E.

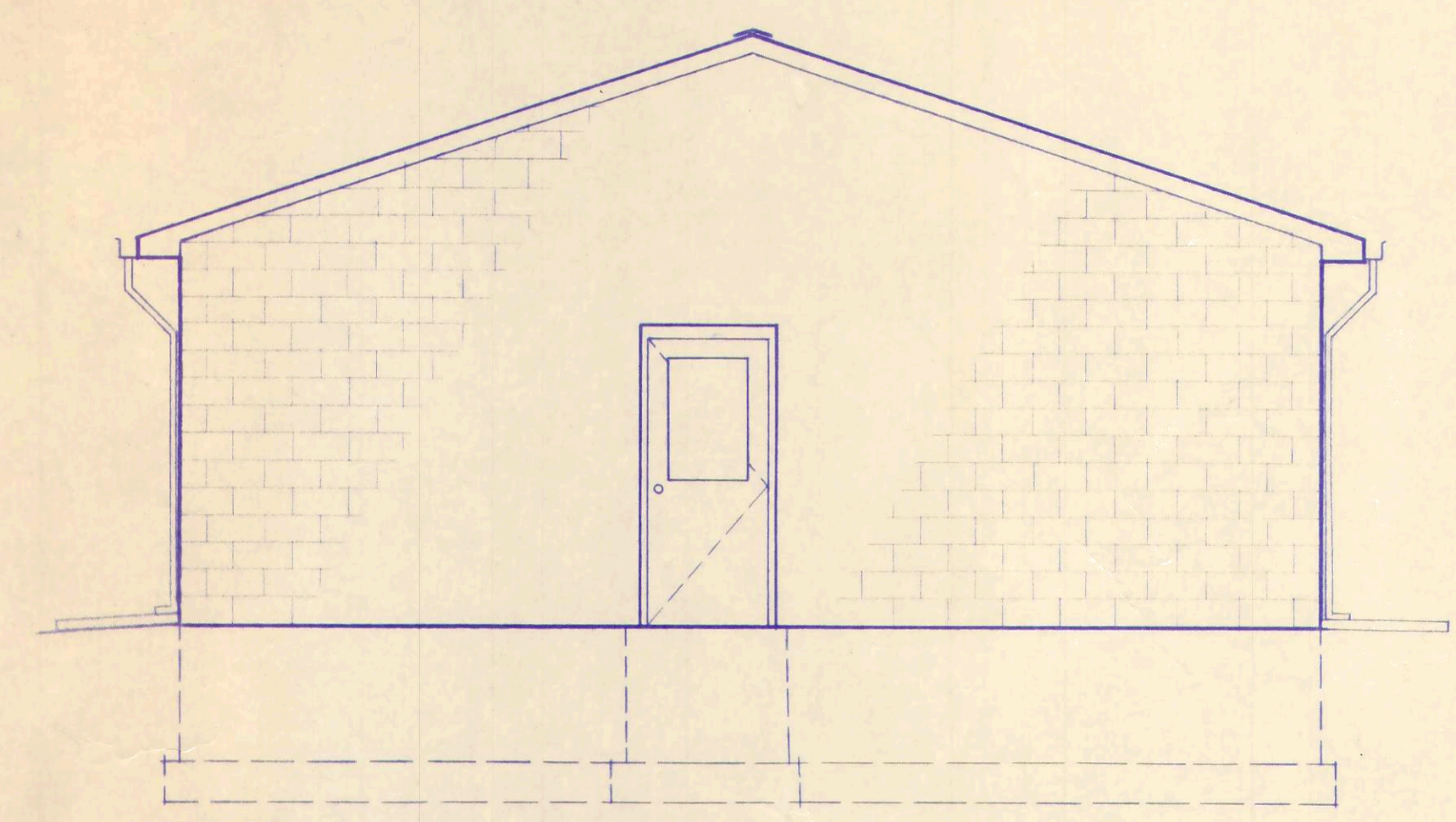
8/8/89
DATE

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
Call 800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

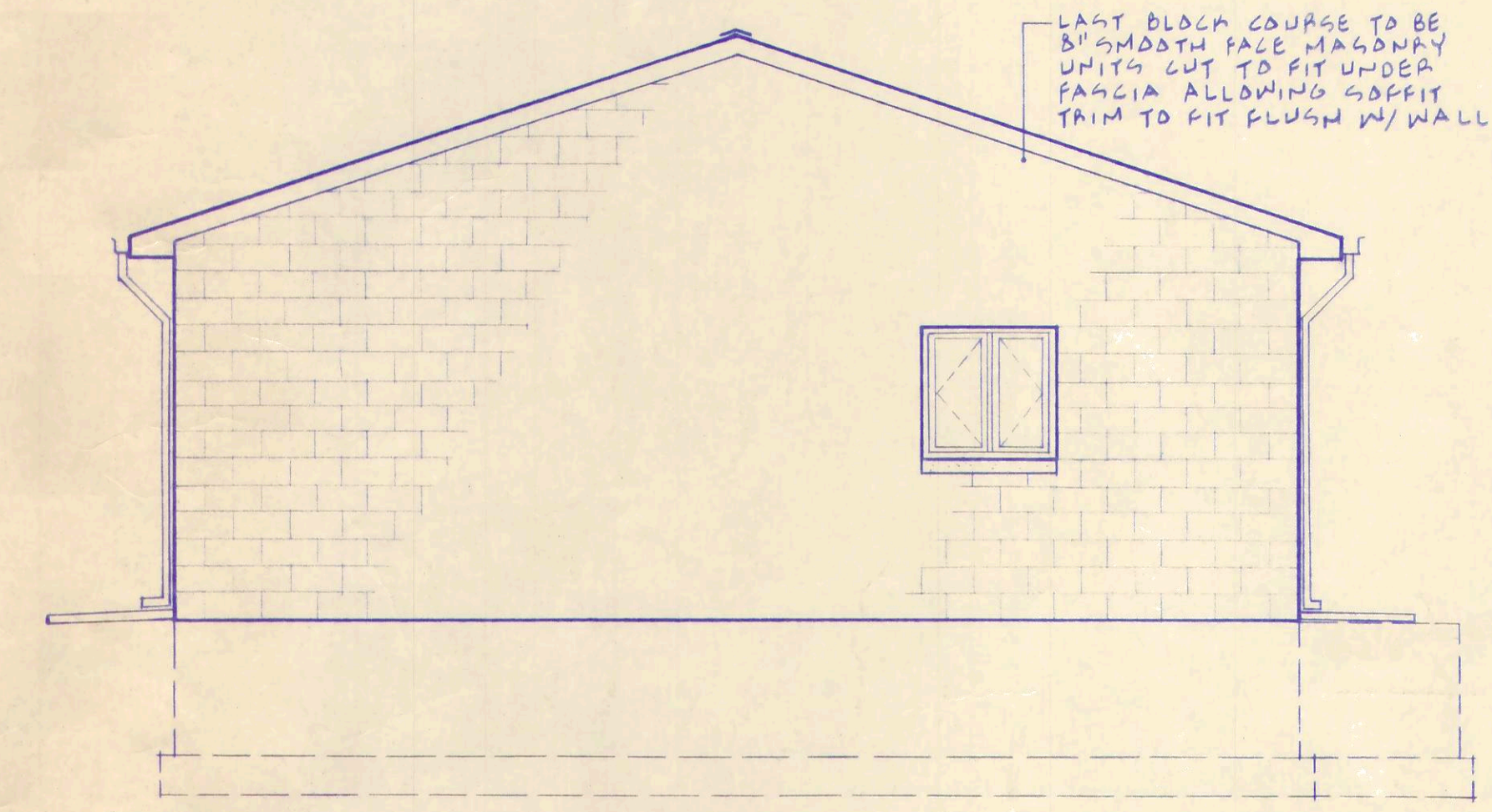


POGGEMEYER DESIGN GROUP, INC.
ENGINEERS-ARCHITECTS-PLANNERS PH. 419-352-7537
121 EAST WOOSTER STREET, BOWLING GREEN, OHIO 43402

AUG 31 1989

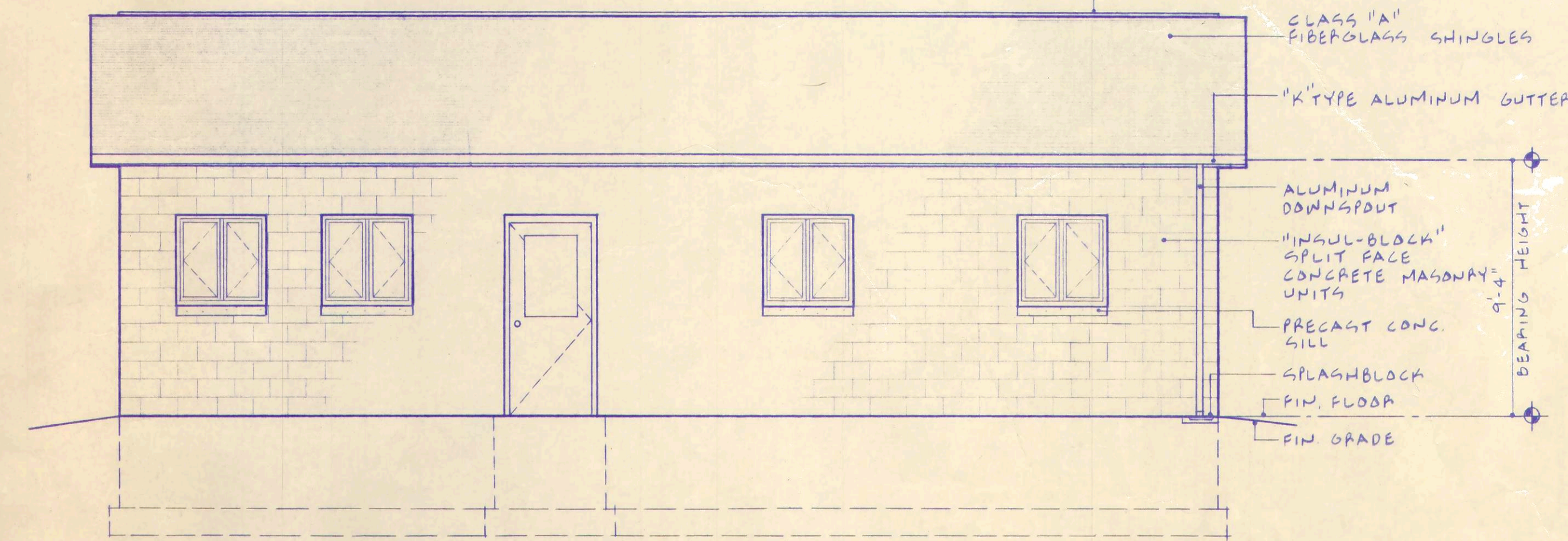


EAST ELEVATION



WEST ELEVATION

1/4" = 1'-0"

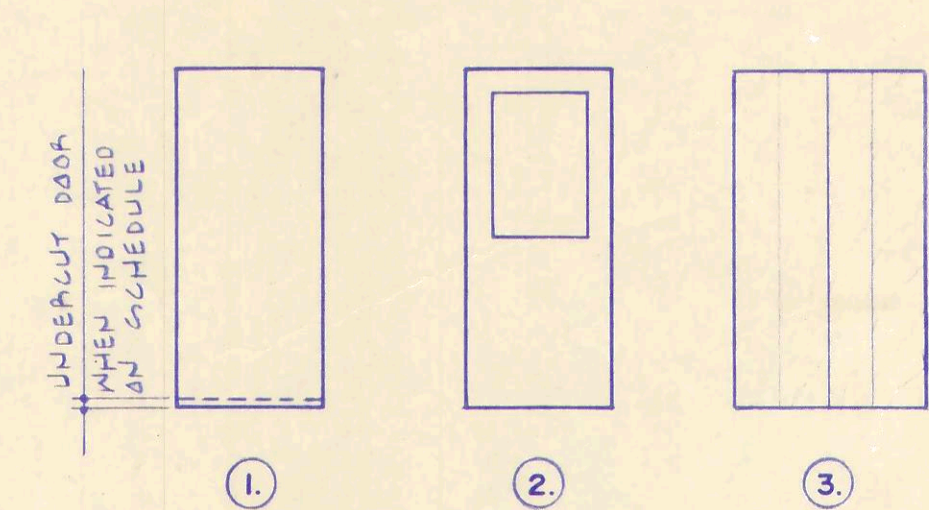


SOUTH ELEVATION

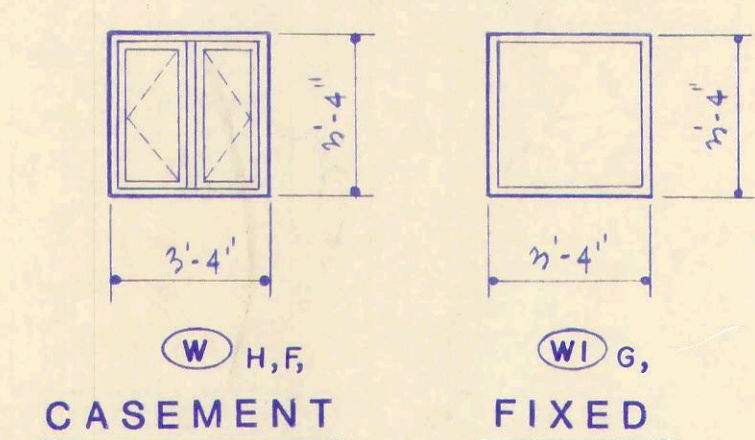
DOOR SCHEDULE									
DOOR	DOOR SIZE	DOOR		FRAME			HARDWARE	REMARKS	
		TYPE	MAT. FACE	JAMB	MAT. TYPE				
①	3'-0" x 7'-0" 1 3/4"	2	HM		HM	A		A, E,	
②	2'-2"0" x 7'-0" 1 3/8"	3	SC		WD			D,	
③	3'-0" x 7'-0" 1 3/4"	1	HM		HM	A		I,	
④	2'-8" x 7'-0" 1 3/4"	1	HM		HM	B		A,	
⑤	3'-0" x 7'-0" 1 3/4"	1	HM		HM	A		I,	
⑥	3'-0" x 7'-0" 1 3/4"	2	HM		HM	A		A, B, C, E,	
⑦	3'-0" x 7'-0" 1 3/4"	2	HM		HM	A		A, B, C, E,	

ROOM FINISH SCHEDULE									
ROOM NUMBER	ROOM NAME	FLOOR	BASE		WALLS		CEILING		REMARKS
			SEAL	CARPET	VINYL	COMP.	TILE		
100	LABORATORY								
101	OFFICE								
102	CLOSET								
103	HALL								
104	MECHANICAL								
105	CLOSET								
106	RESTROOM								
107	SHOWER								

• COLORS TO BE SELECTED BY OWNER
• PANELING TO BE SELECTED BY OWNER



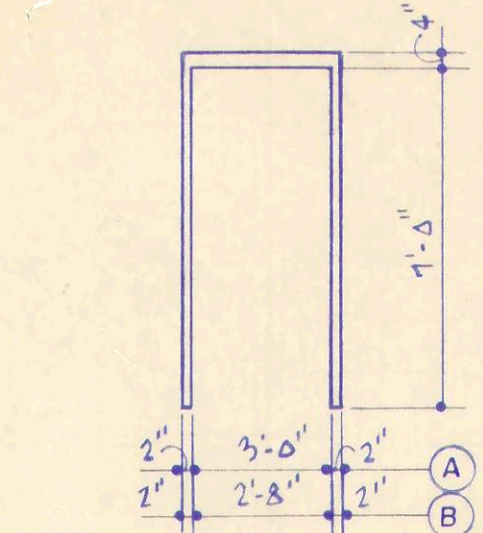
DOOR TYPES



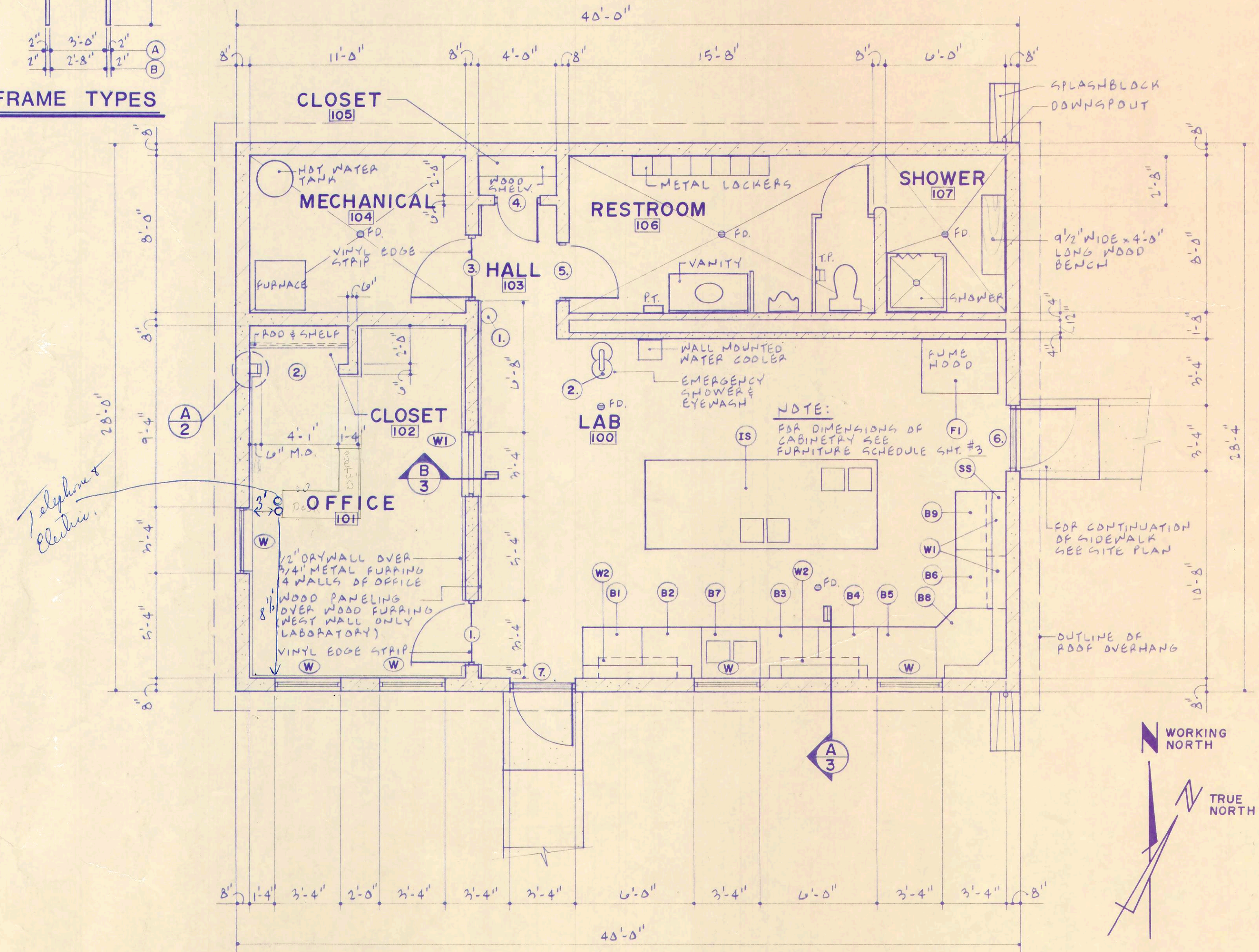
WINDOW TYPES

DOOR & WINDOW NOTES:

- A. LOCKSET AND CLOSURE
- B. FULLY WEATHERSTRIPPED, INSULATED, WITH THRESHOLD
- C. DOOR TO BE EQUIPPED WITH CLEAR GLASS PANE LARGE ENOUGH TO ALLOW FORCED ENTRY IN AN EMERGENCY. DOOR LOCK TO BE PART OF MASTER LOCKING SYSTEM BUT ACCESSIBLE TO ONLY QUALIFIED PERSONNEL.
- D. BIFOLD SOLID CORE WOOD
- E. 24" x 36" LITE
- F. CASEMENT WINDOW, BRONZE, FINISH WITH 1" INSULATING GLASS
- G. FIXED LITE, HOLLOW METAL FRAME, COLOR TO MATCH INTERIOR DOORS
- H. PRECAST CONCRETE SILL
- I. UNDERCUT DOOR (1")

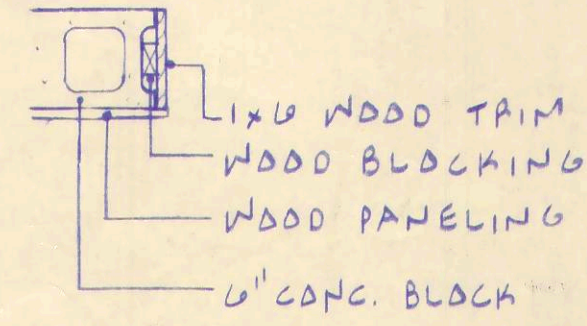


FRAME TYPES



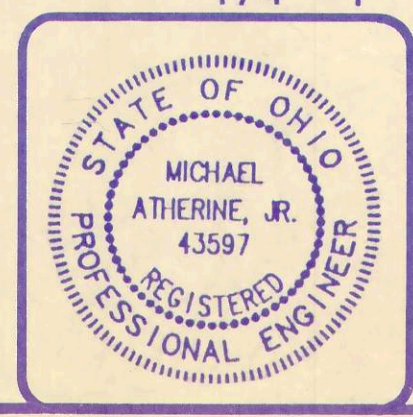
FLOOR PLAN

1/4" = 1'-0"



DETAIL A

3/4" = 1'-0"



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LABORATORY BUILDING

FURNITURE & CABINET SCHEDULE									
MARK	WIDTH	CABINET	WORKTOP		DOOR		NO.	REMARKS	QUANTITY
			NO.	MATERIAL	NO.	MATERIAL			
B1	35 1/4"	B2666		EPOXYN	P.L.			BASE CABINET	1
B2	35 1/4"	B2670		EPOXYN	P.L.			BASE CABINET	1
B3	35 1/4"	B2621		EPOXYN	P.L.			BASE CABINET	1
B4	35 1/4"	B2669		EPOXYN	P.L.			BASE CABINET	1
B5	35 1/4"	B2614		EPOXYN	P.L.			BASE CABINET	1
B6	35 1/4"	B2624		EPOXYN	P.L.			BASE CABINET	1
B7	35 1/4"	B2690		EPOXYN	P.L.			BASE CABINET (SINK BASE)	1
B8	32"	B2102		EPOXYN	P.L.			BASE CABINET (W/LAZY SUSAN) (CORNER CABINET)	1
B9	35 1/4"	B2601		EPOXYN	P.L.			BASE CABINET (ACID STORAGE)	1
								(W/RESISTANT GLASS-REINFORCED CEMENT INTERIOR (CONTAINS NO ASBESTOS), & VENTED DOORS)	
SS	8"			EPOXYN				SERVICE SHELF (VERIFY W/MANUFACTURER)	24 L.F.
IS	55"	11'-9" LONG		EPOXYN			A5322	7 CABINET ISLAND ASSEMBLY W/2 SINKS AS PER PLAN	1
W1	35 1/4"	P.L.			GLASS		E-5623	WALL CASE (GLAZED-HINGED) (12" DEEP)	2
W2	47 1/4"	P.L.			GLASS		E-5823	WALL CASE (GLAZED-HINGED) (12" DEEP)	2
1	-						10-014-9	10 LB. FIRE EXTINGUISHER	1
F1	47"			EPOXYN			93-470A	FUME HOOD W/EXTERNALLY MOUNTED BLOWER	1
2	-							SAFETY STATION (DELUGE SHOWER & EYE/FACE WASH)	1

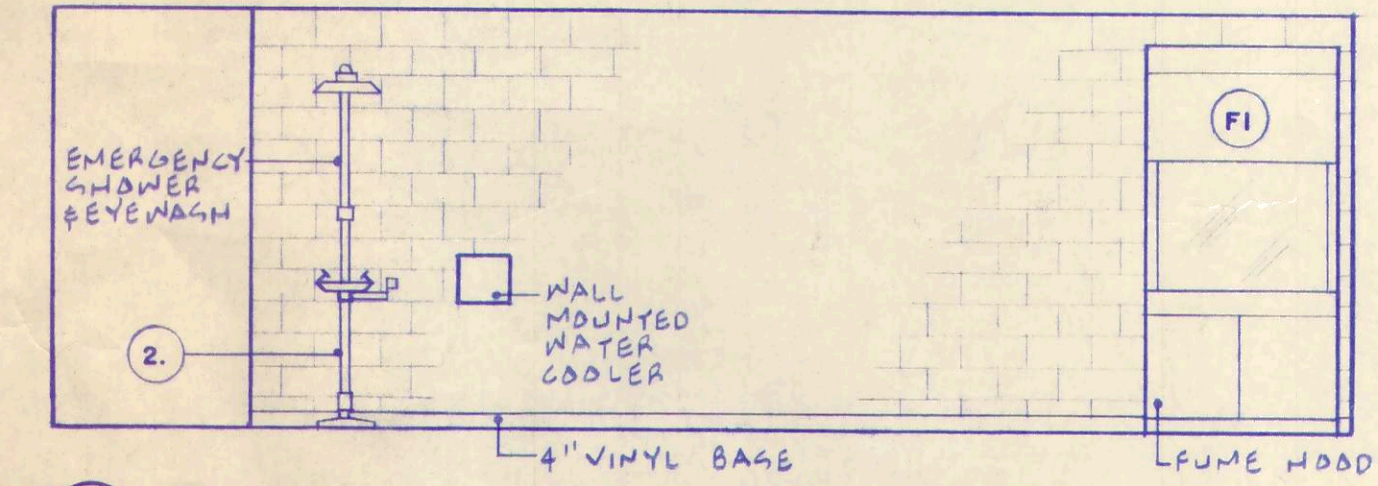
NUMBERS OF FISHER SCIENTIFIC "ESSEX SERIES" (HIGH-PRESSURE PLASTIC LAMINATE BASE CABINETS) 1983 CATALOG ARE LISTED TO INDICATE TYPE OF QUALITY, COMPARABLE EQUIPMENT WILL BE ACCEPTABLE. COLORS TO BE SELECTED BY OWNER.

COUNTERTOPS TO BE CUT BY MANUFACTURER TO RECEIVE ONE EPOXY DOUBLE BOWL SINK, CONSISTING OF TWO 14" x 14" x 8" SINKS, ONE MIXING FAUCET AND TWO DRAINS AS REQUIRED.

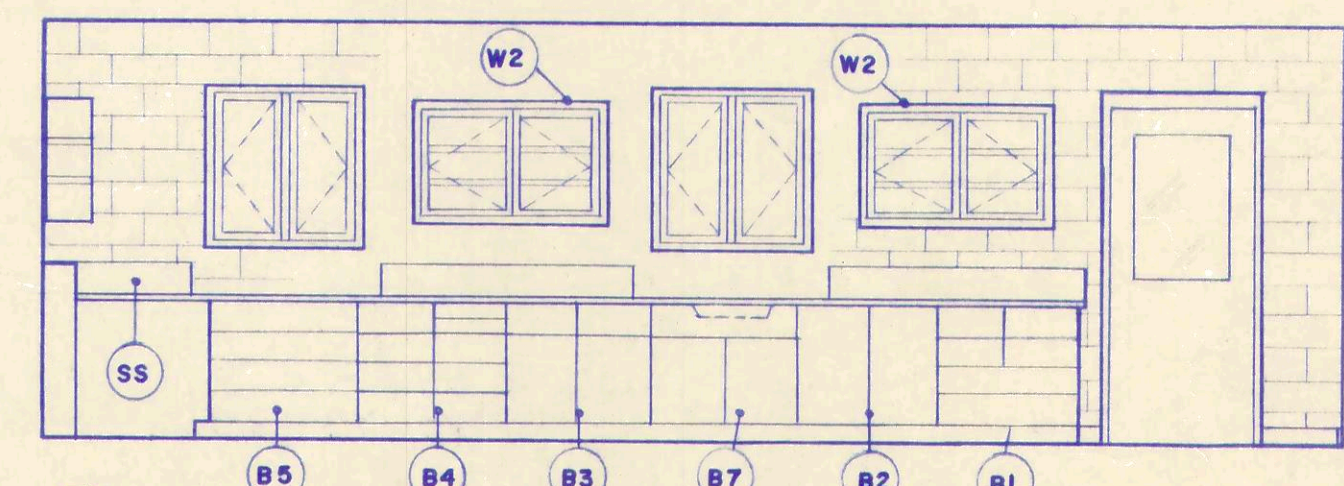
FOR LOCATION OF GAS COCKS, ELECTRICAL RECEPTACLES AND INCIDENTALS, SEE MECHANICAL AND ELECTRICAL PLANS.

P.L. - INDICATES PRESSURE LAMINATE

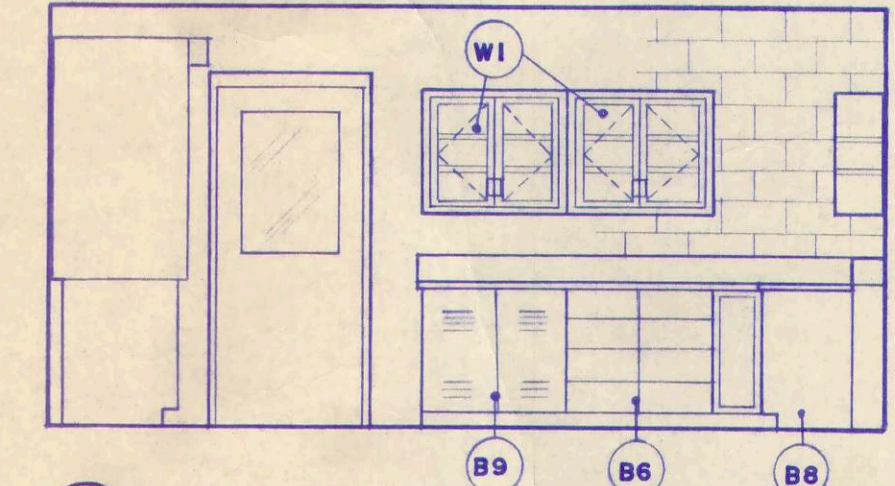
1/4" SCALE INTERIOR ELEVATIONS



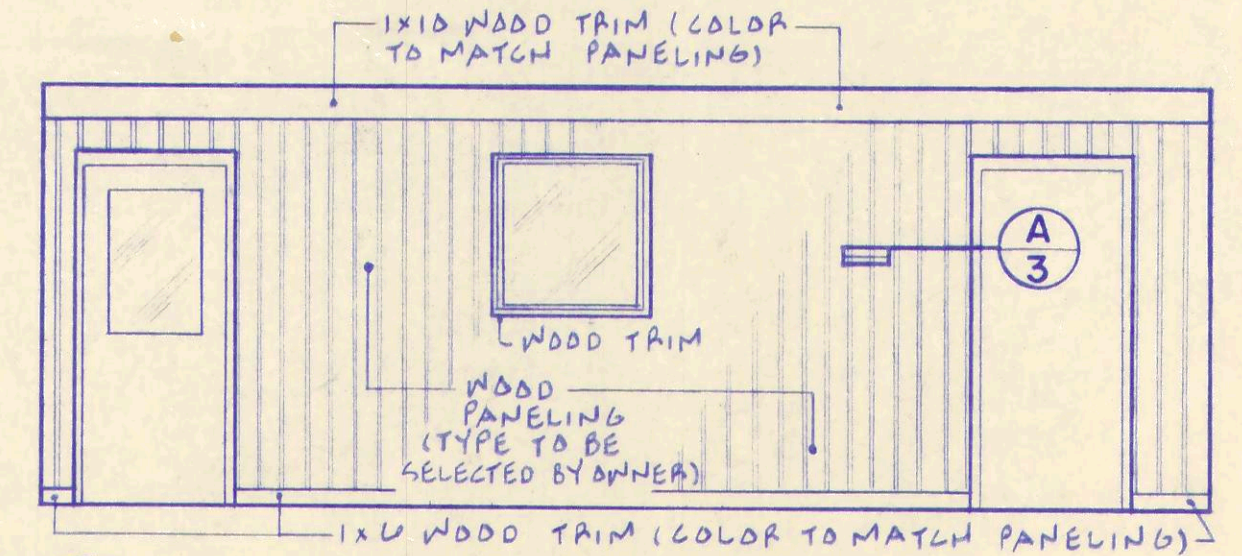
A LAB 100- NORTH ELEVATION



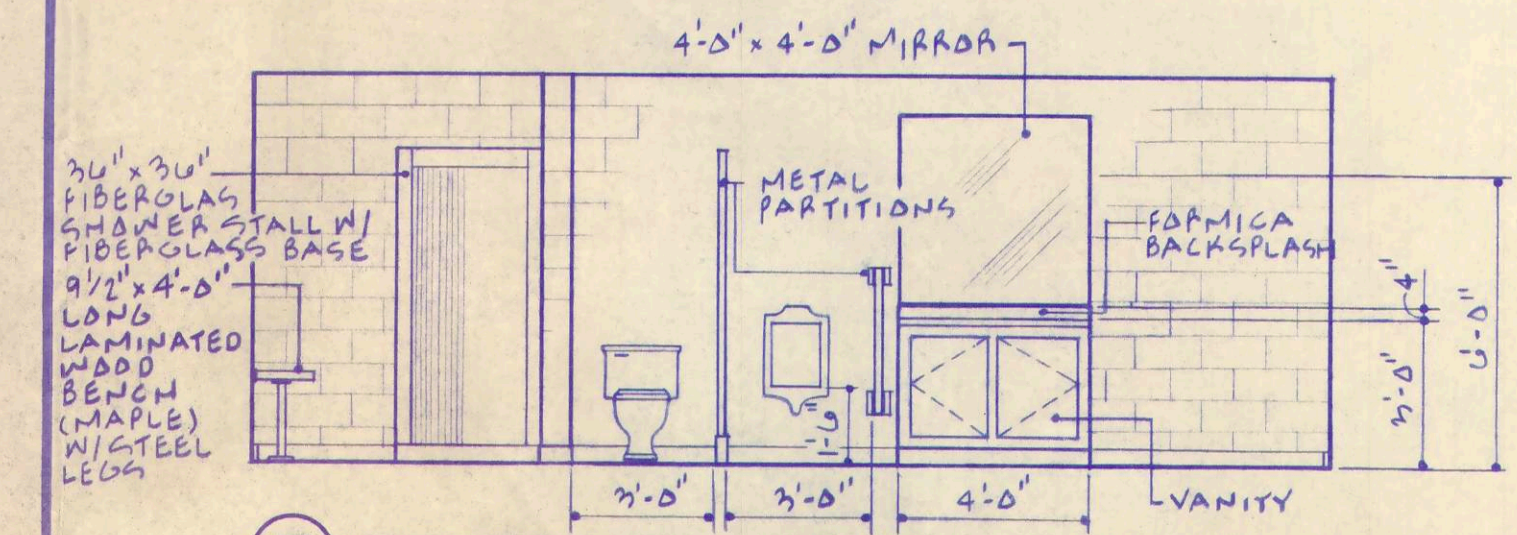
B LAB 100- SOUTH ELEVATION



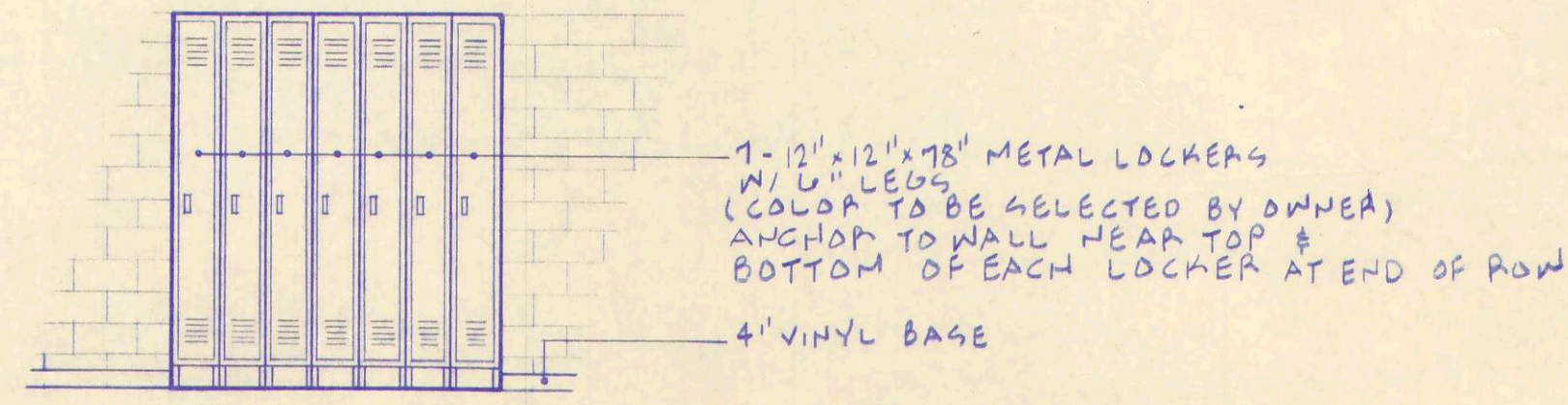
C LAB 100- EAST ELEVATION



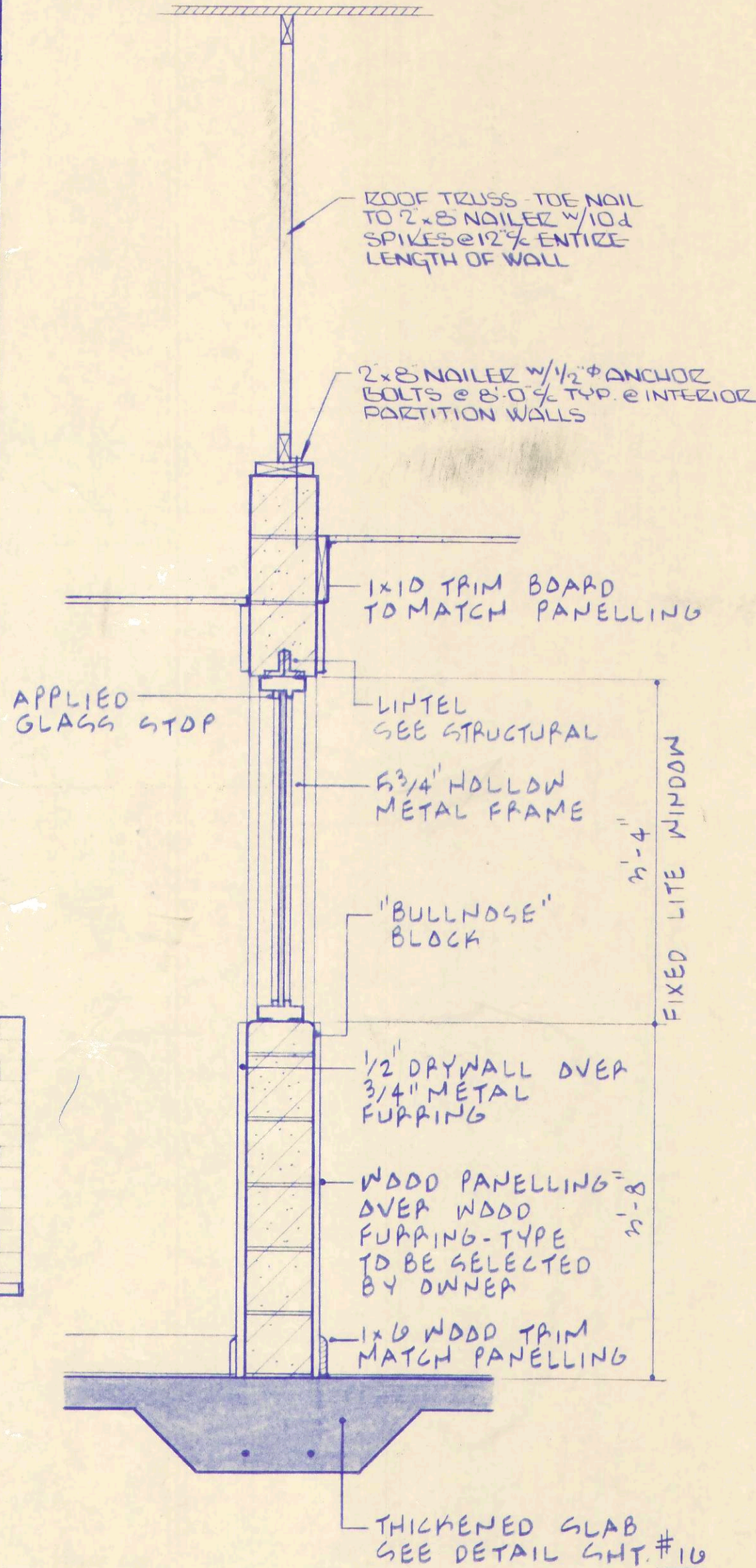
D LAB 100- WEST ELEVATION



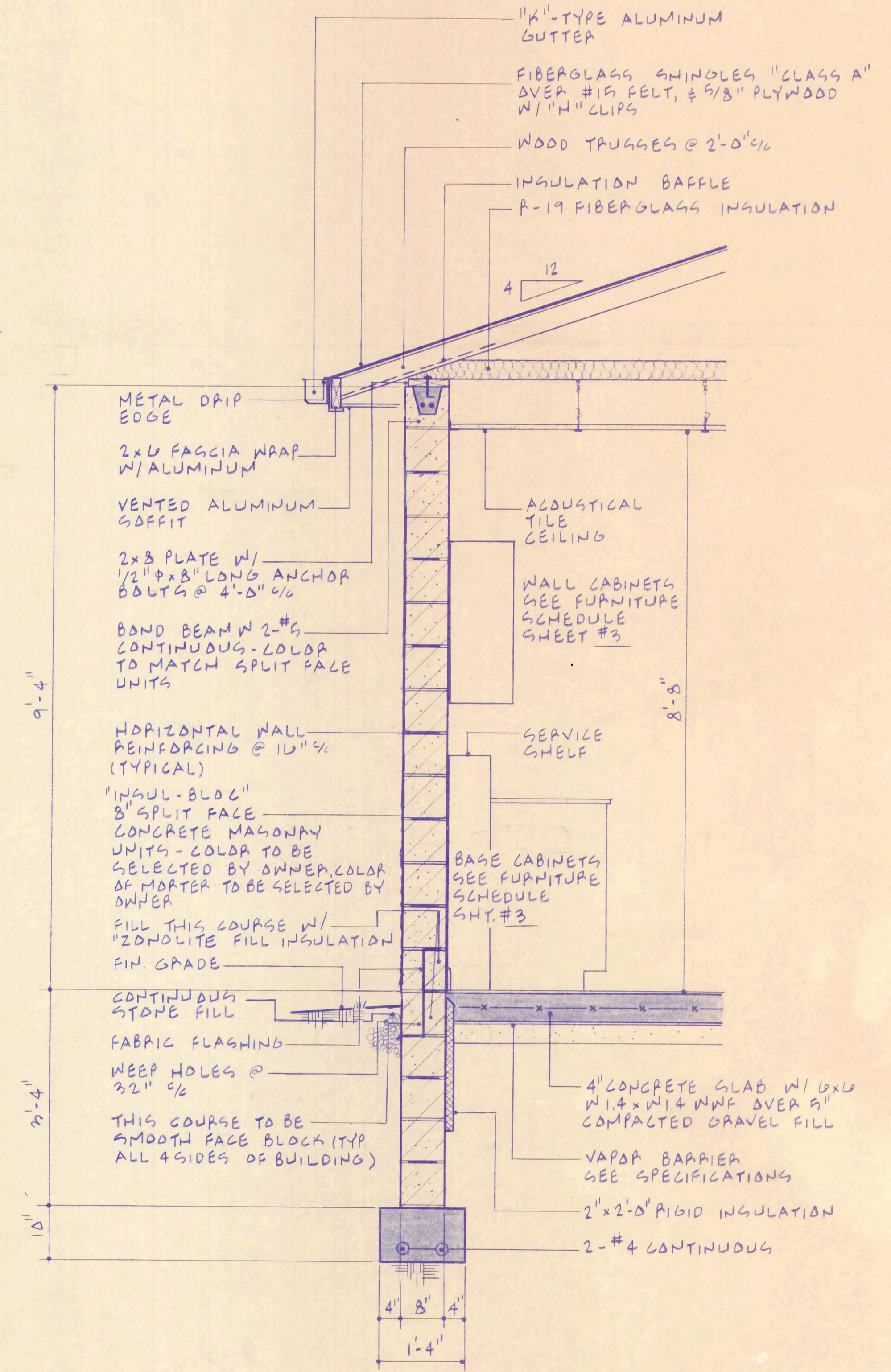
E RESTROOM 106- SOUTH ELEVATION



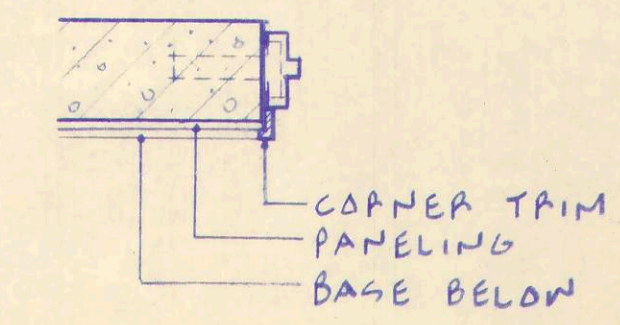
F RESTROOM 106- NORTH ELEVATION



SECTION B 3/4"-1'-0"



SECTION A 3/4"-1'-0"



DETAIL A 3/4"-1'-0"



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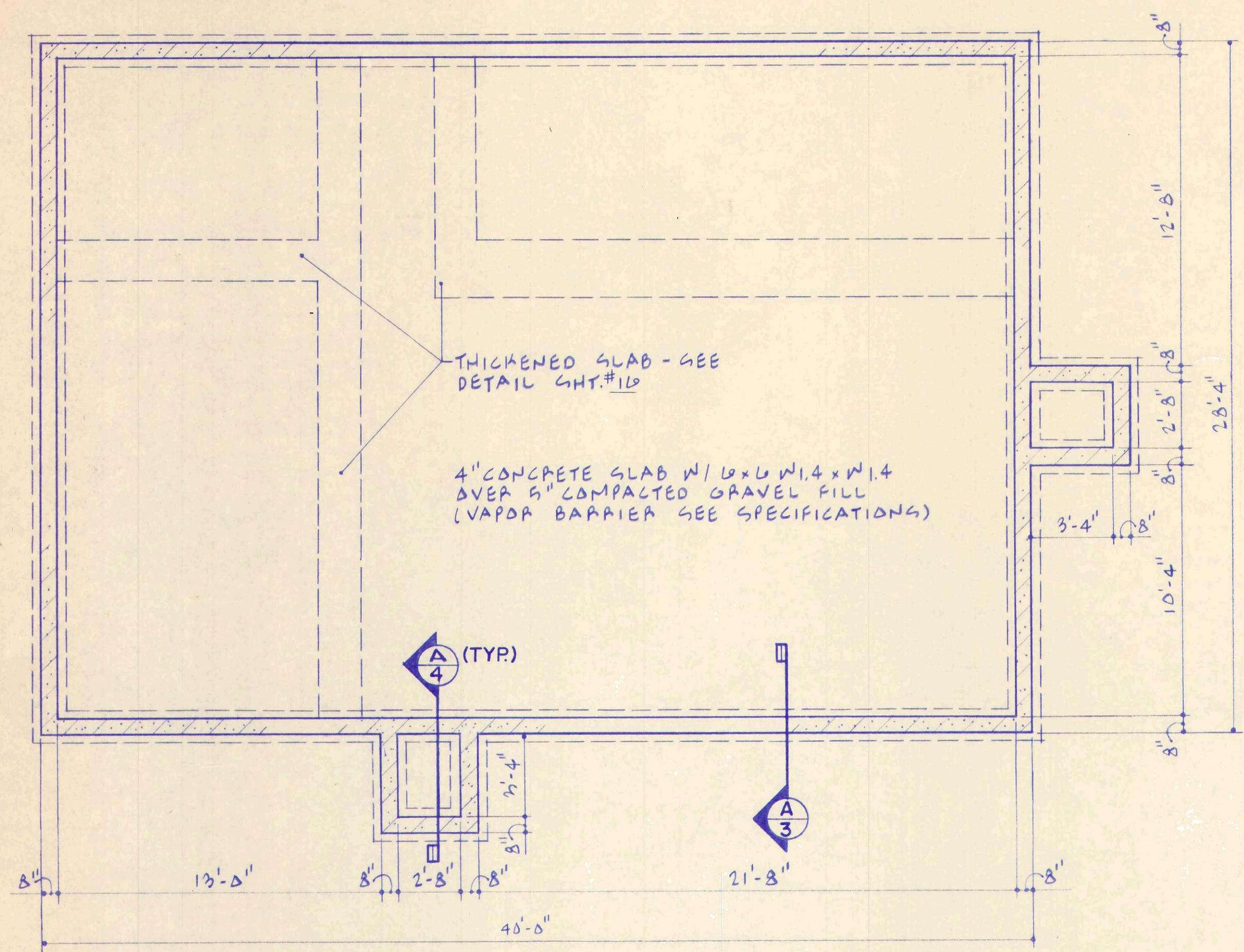
LABORATORY BUILDING

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PLANNERS
ENGINEERS
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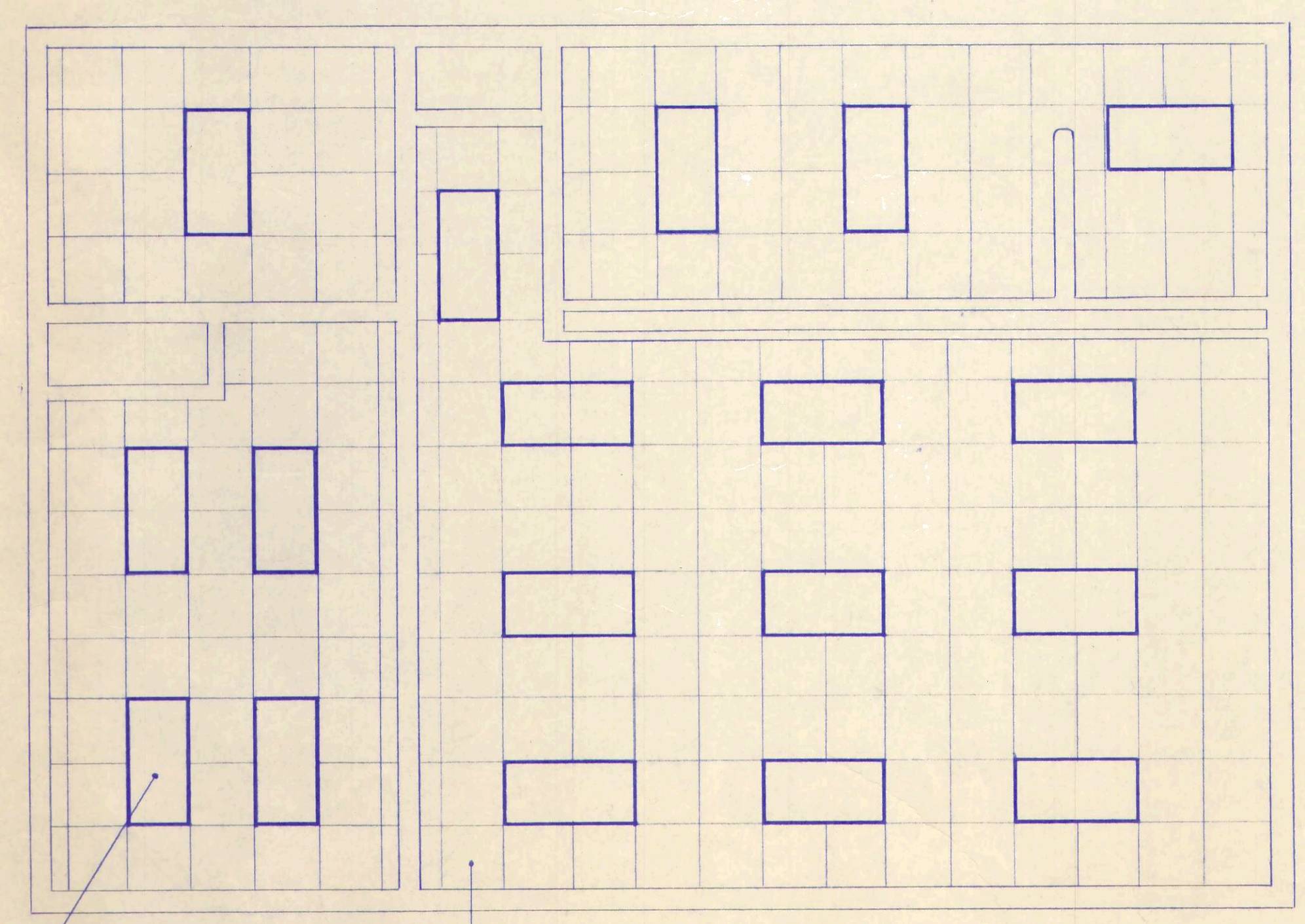
WASTEWATER TREATMENT
PLANT IMPROVEMENTS
OAK HARBOR, OHIO

DRAWN BY: _____
CHECKED BY: _____
DATE: _____
REVISION: _____

3 18
JOB NUMBER
1590-008

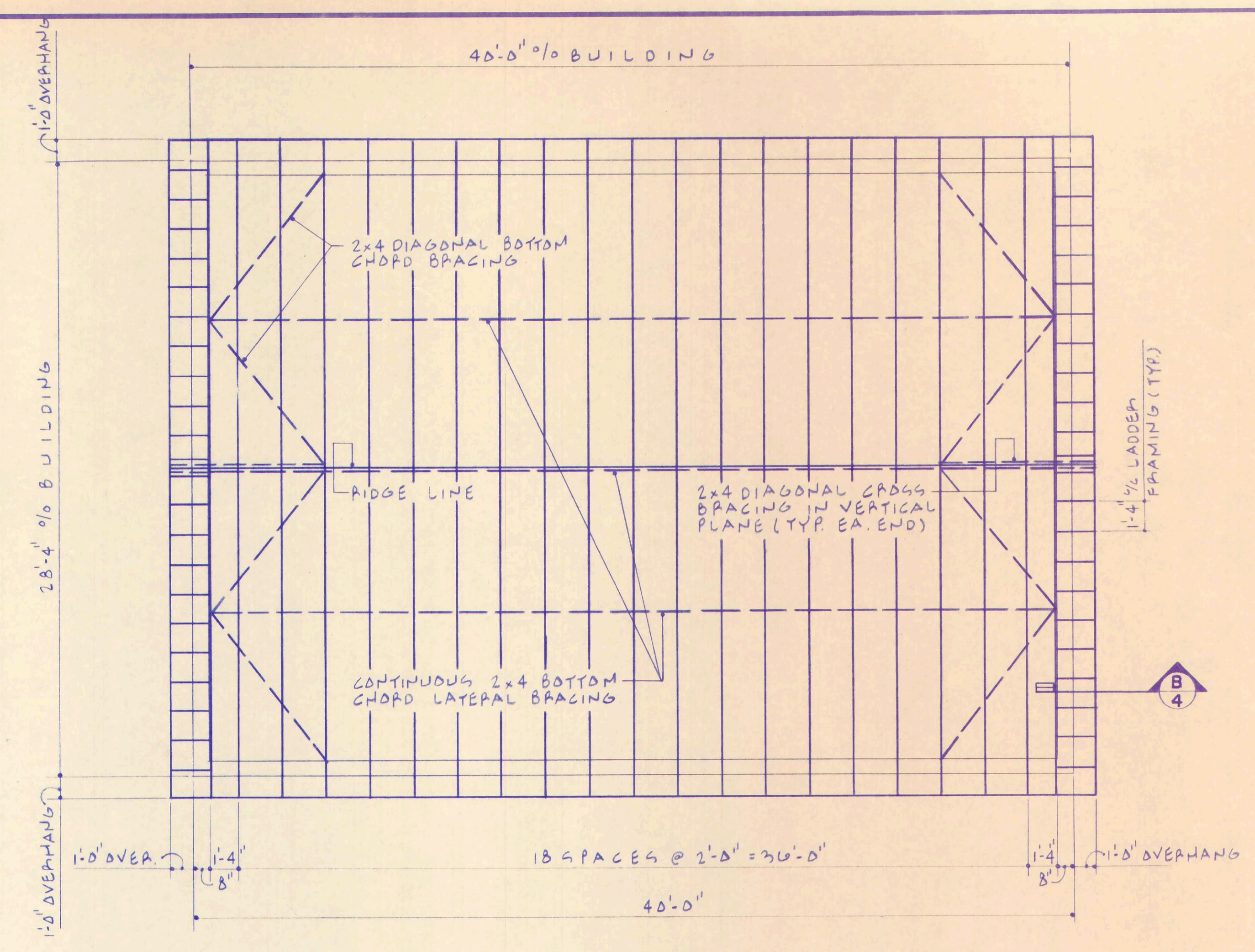


FOUNDATION PLAN
1/4"=1'-0"

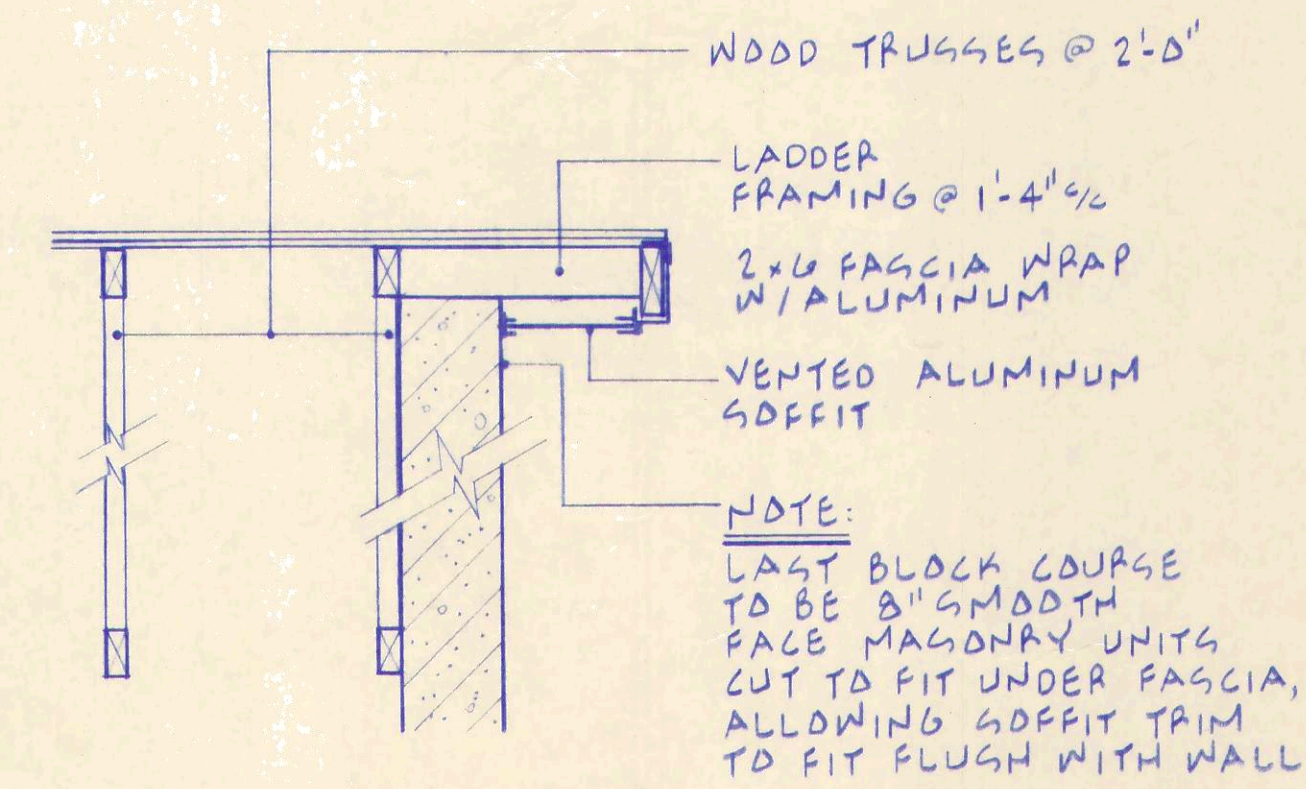


LIGHT FIXTURE, TYPICAL, SEE ELECTRICAL DRAWINGS
FOR CEILING DIFFUSERS, SEE MECHANICAL DRAWINGS
2'x2' REGULAR ACOUSTICAL TILE CEILING
PATTERN TO BE SELECTED BY OWNER
GRID SHALL BE BLACK

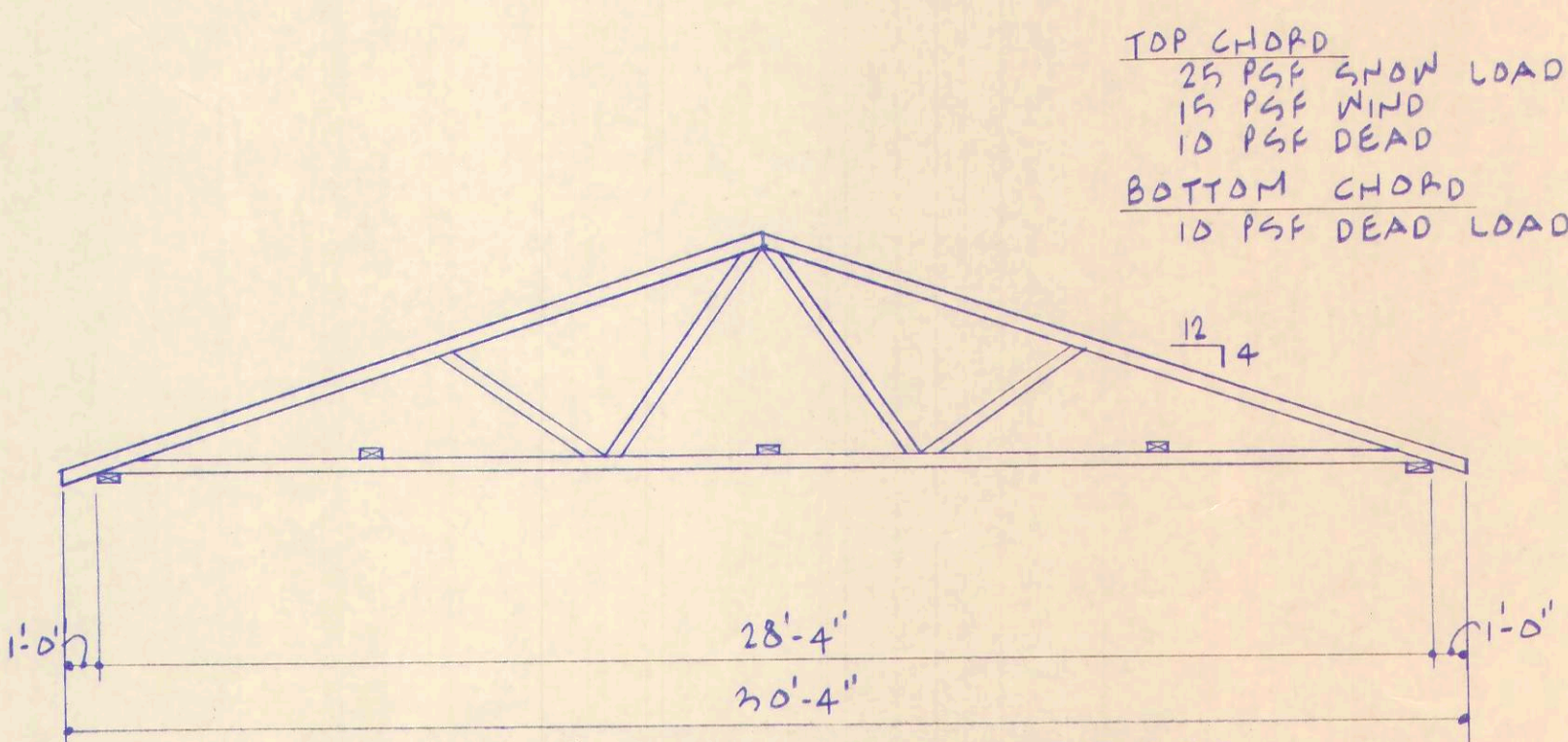
REFLECTED CEILING PLAN
1/4"=1'-0"



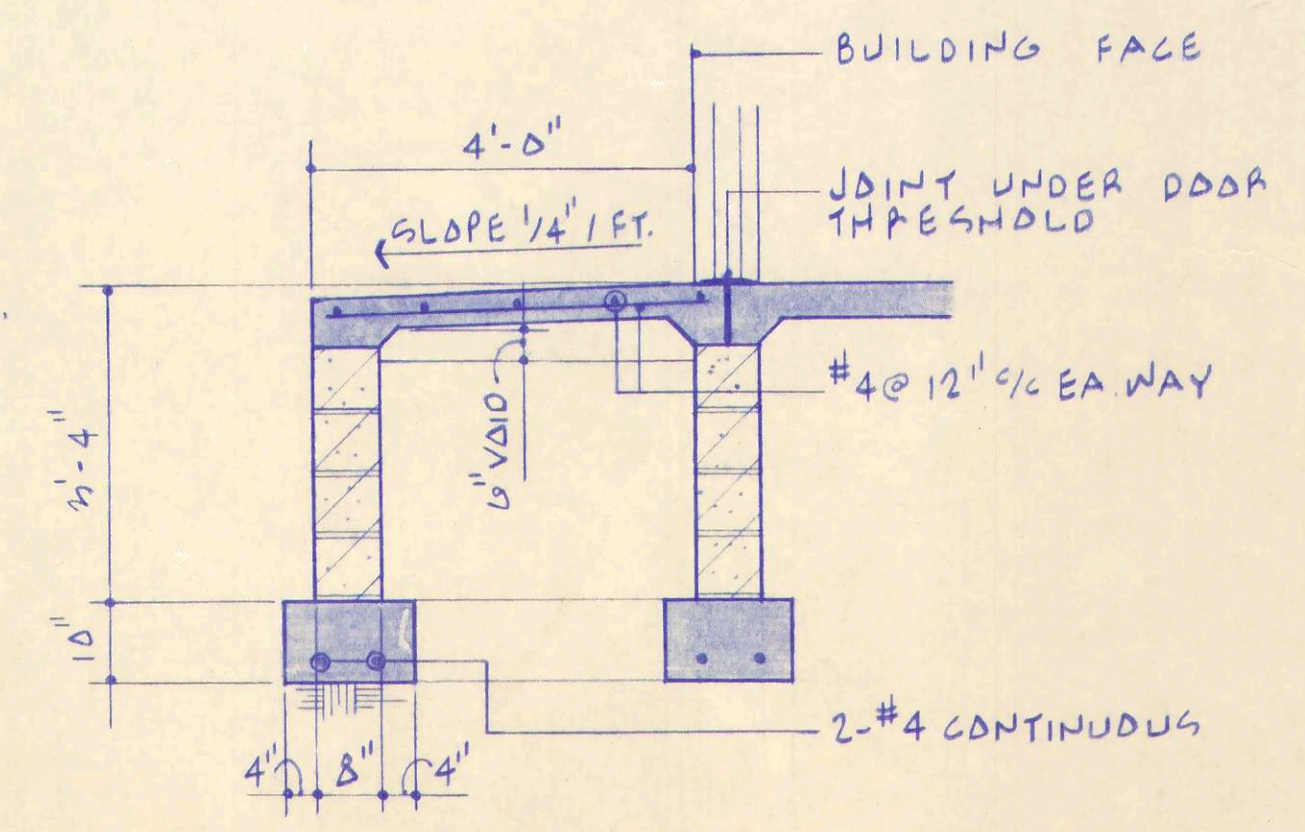
ROOF FRAMING PLAN
1/4"=1'-0"



SECTION B
3/4"=1'-0"



TRUSS LOADING DIAGRAM
N.T.S.



SECTION A
1/2"=1'-0"



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LABORATORY BUILDING

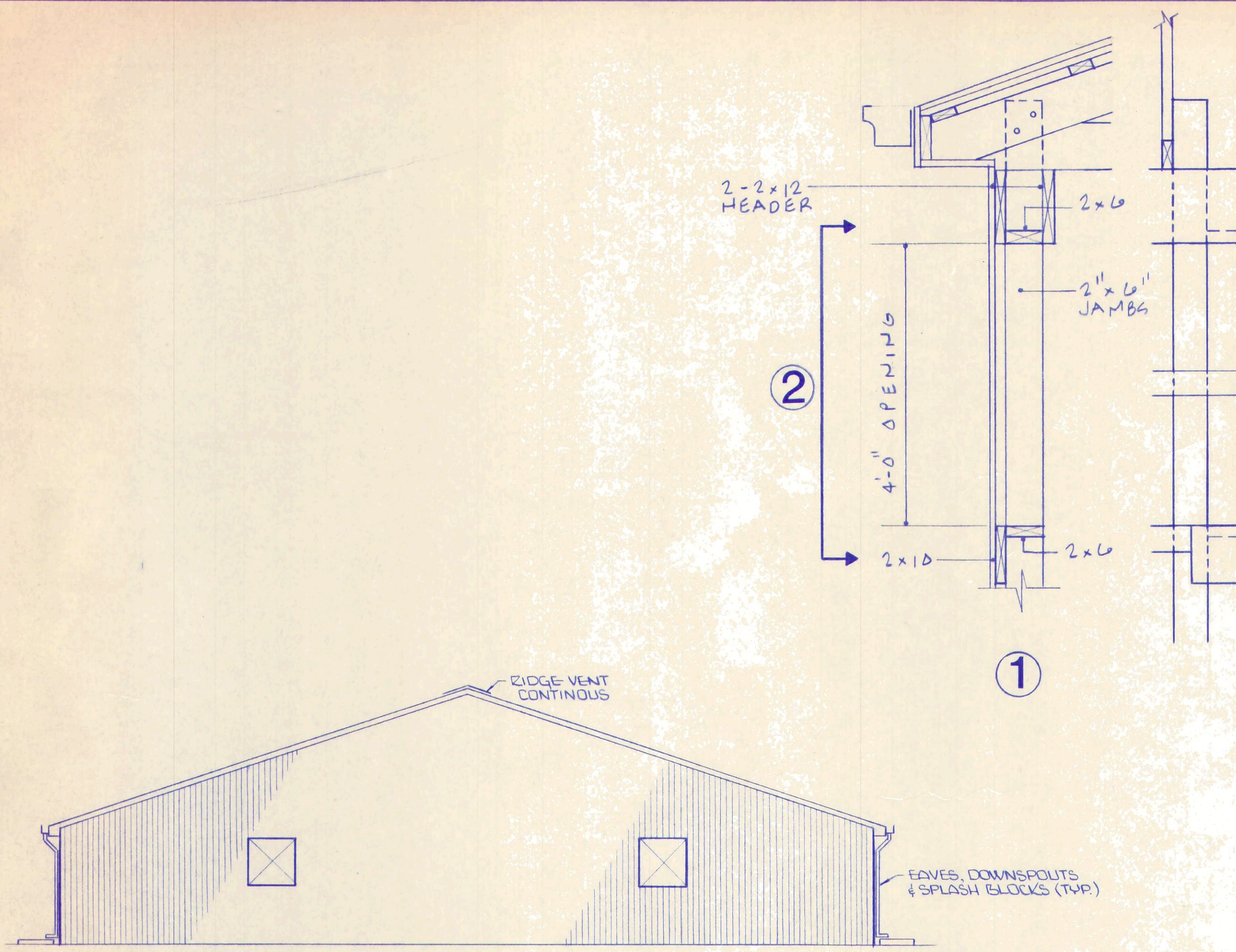


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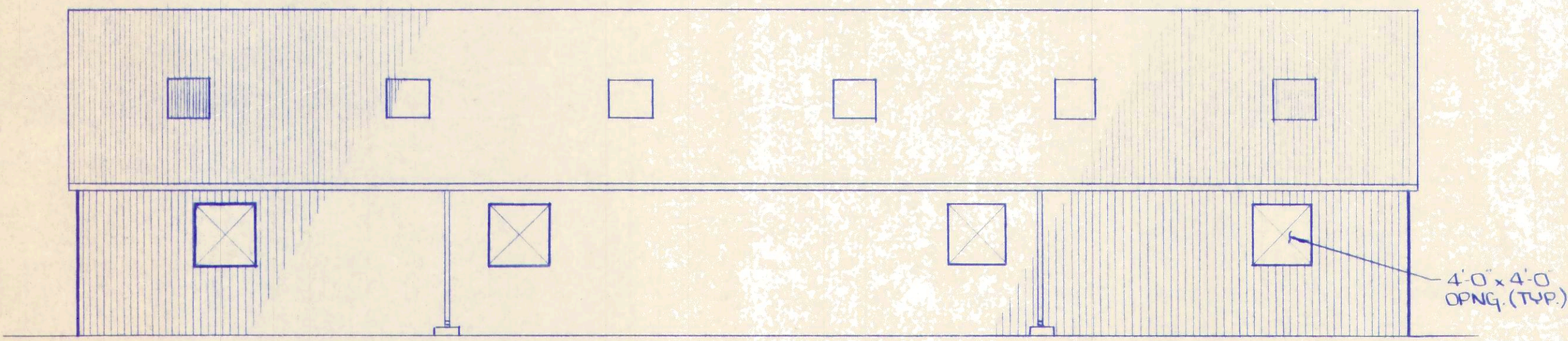
WASTEWATER TREATMENT
PLANT IMPROVEMENTS
OAK HARBOR, OHIO

DRAWN BY	DATE
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REVISION	

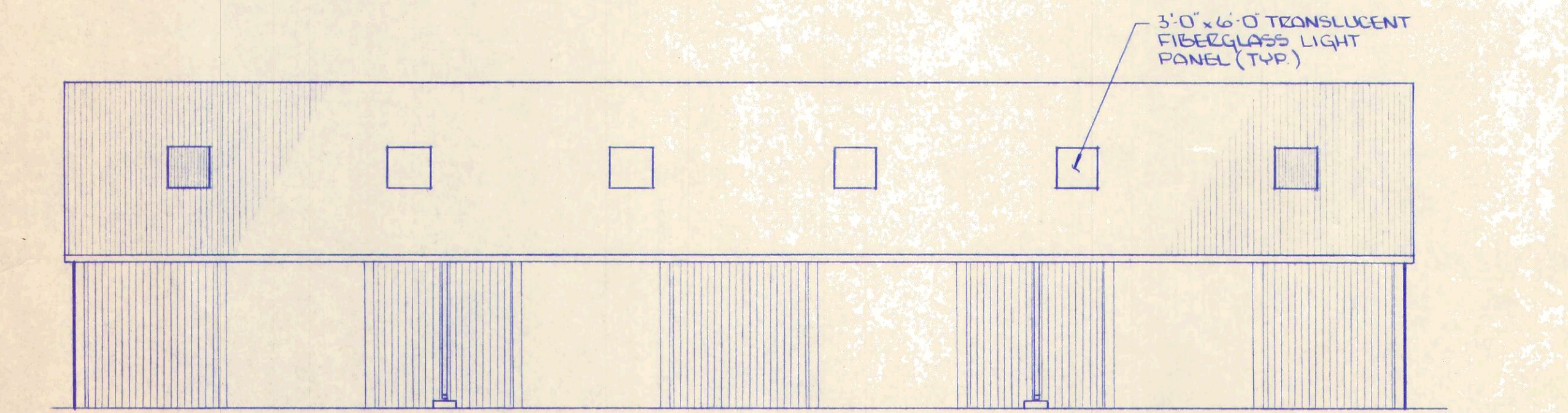
5
18
JOB NUMBER
1590-008



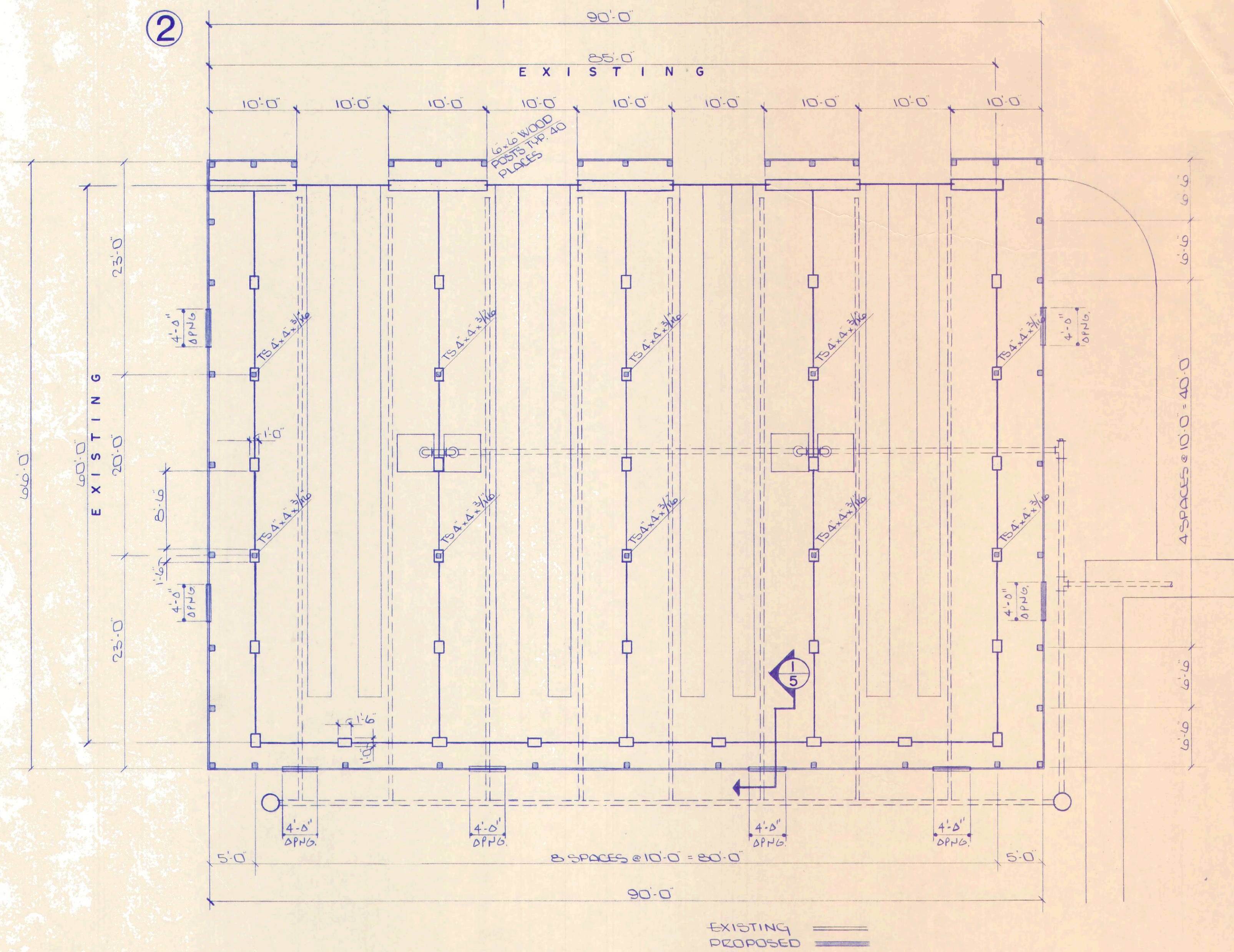
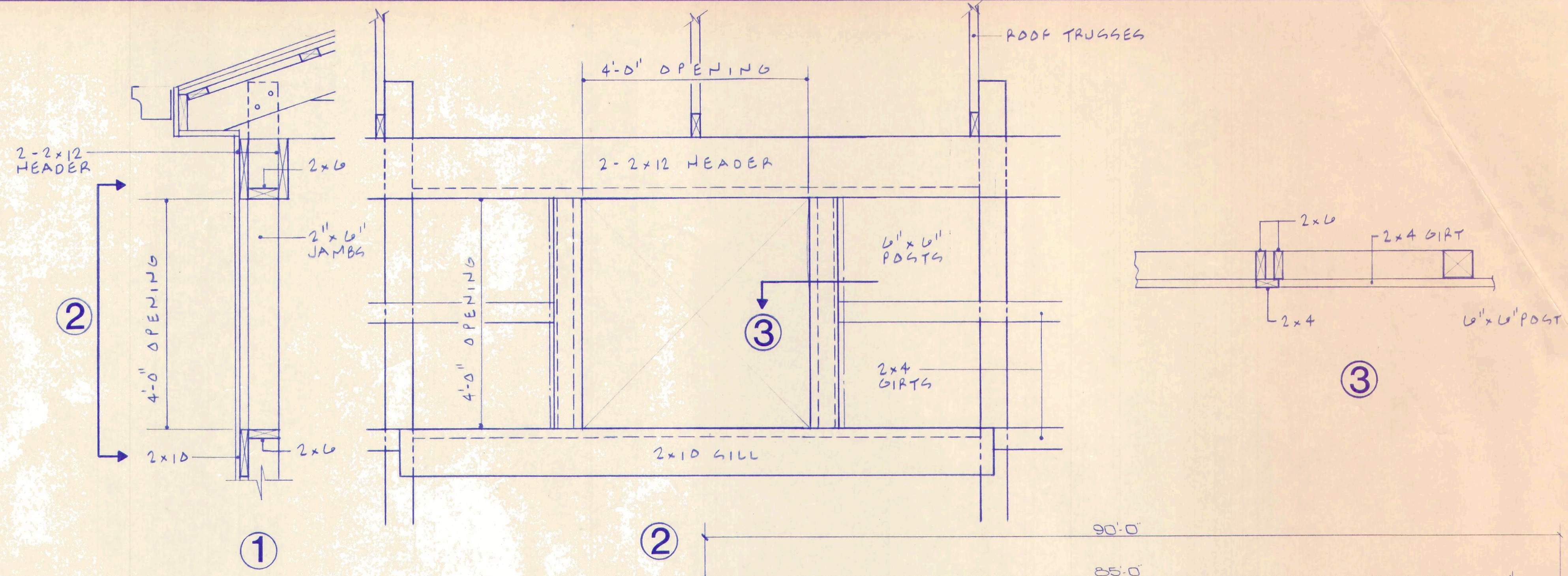
NORTH & SOUTH ELEVATION
1/8" = 1'-0"



EAST ELEVATION
1/8" = 1'-0"

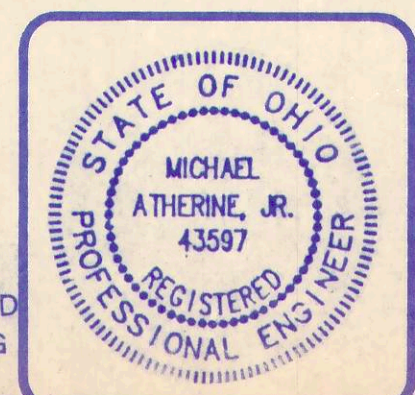


WEST ELEVATION
1/8" = 1'-0"



PLAN - EXISTING SLUDGE DRYING BEDS & NEW SHELTER
1/8" = 1'-0"

CONTRACTOR NOTE:
VERIFY EXISTING CONDITIONS AND
DIMENSIONS BEFORE PROCEEDING
WITH WORK



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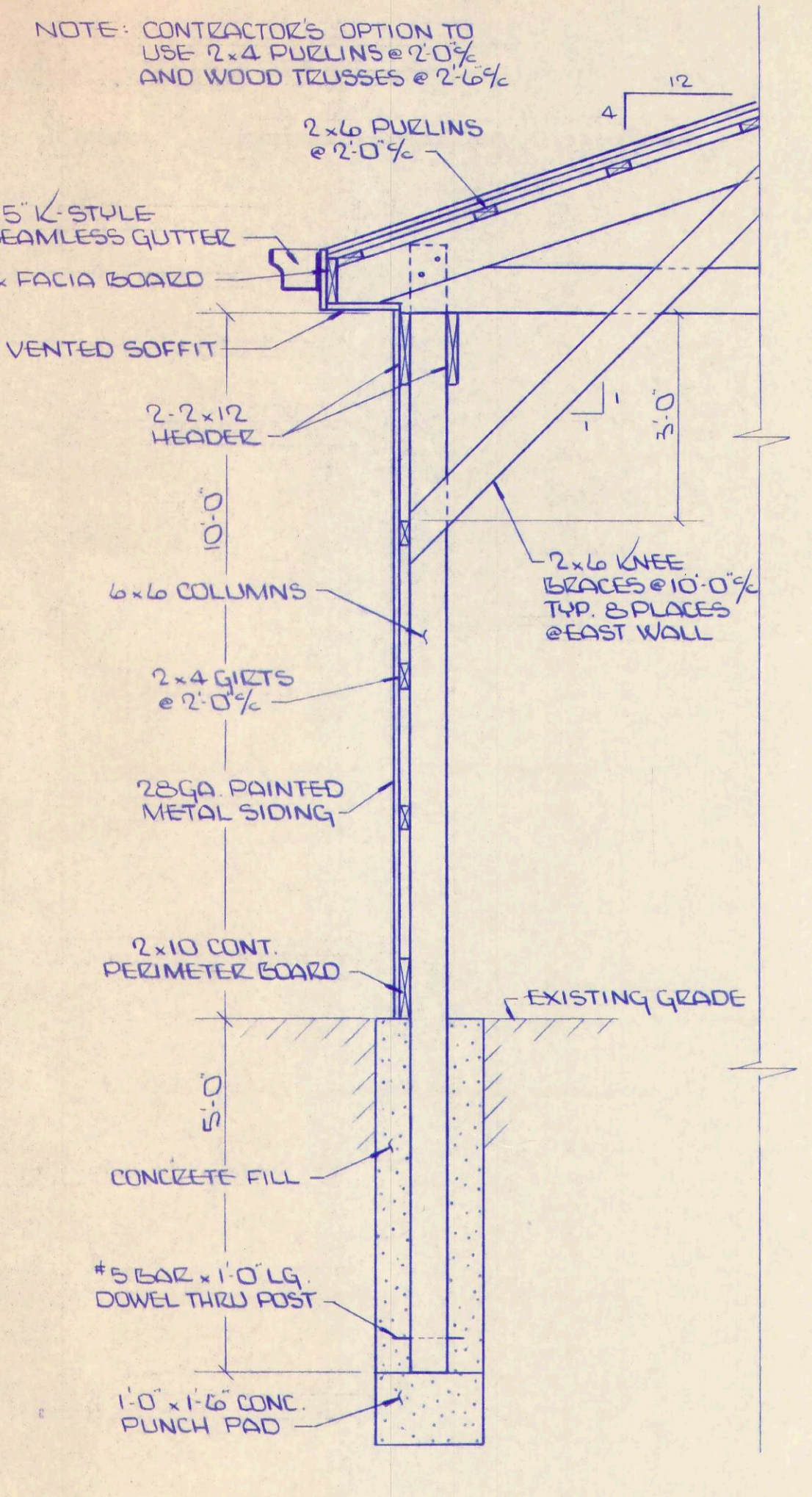
SLUDGE BED SHELTER



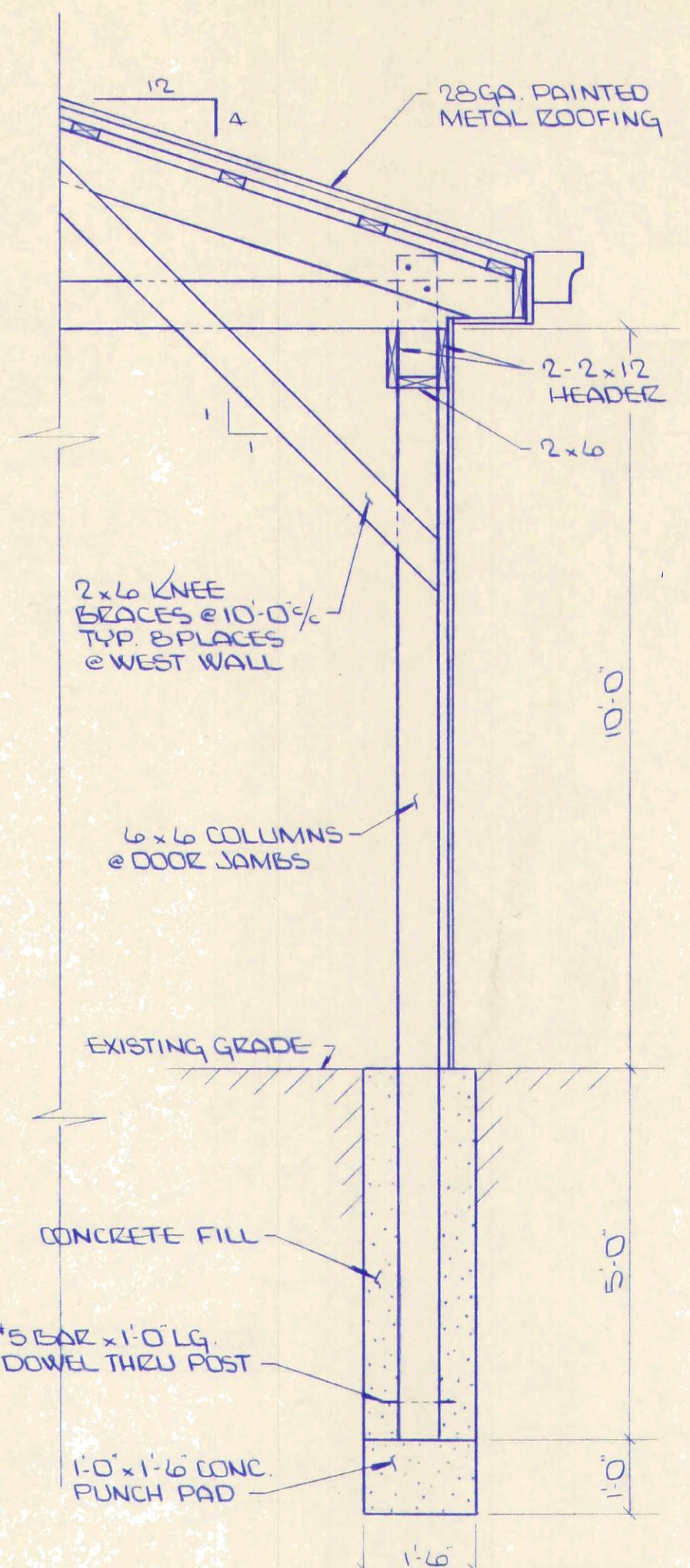
DRAWN BY	DATE
1/10	
CHECKED BY	
REVISION	

GENERAL NOTES

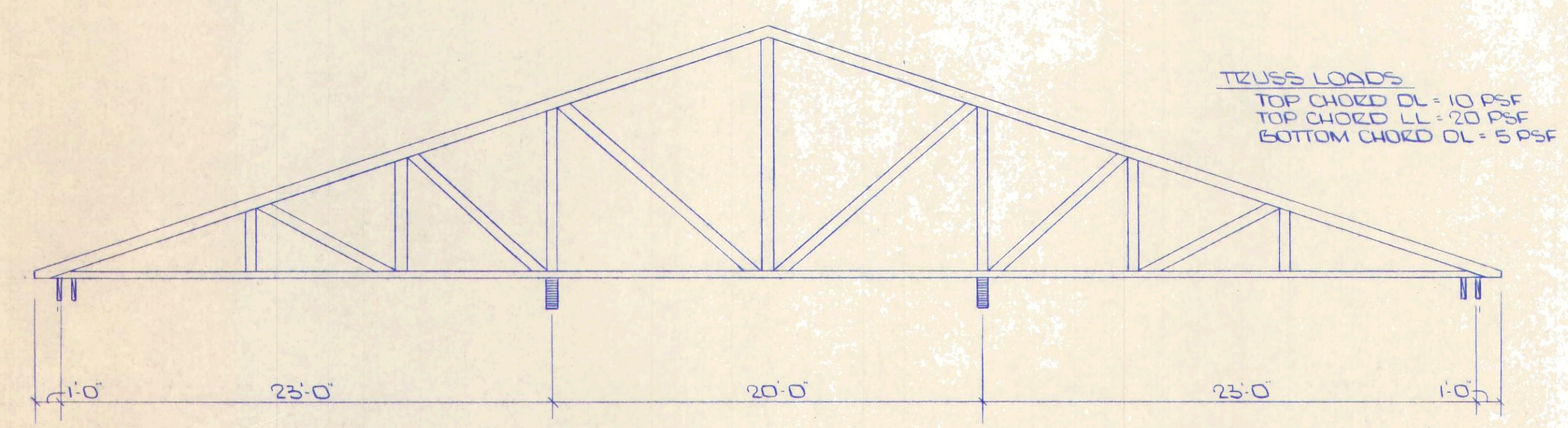
1. All wood construction shall conform to the latest edition of the National Design Specification for Wood Construction.
2. All wood posts and other lumber used for framing shall be Southern Pine No. 2 Grade or better, stress graded for not less than 1200 PSI in flexure.
3. Lumber and wood framing shall not have a moisture content greater than 19% by weight when placed into the construction.
4. All wood posts shall be pressure treated with CCA wood preservative to a minimum net retention of 0.60 pounds per cubic foot and all other treated lumber to a minimum net retention of 0.40 pounds per cubic foot.
5. All fasteners coming in contact with treated lumber shall be hot dipped galvanized.
6. Roof trusses shall be designed and fabricated in accordance with the latest Truss Plate Institute specifications.
7. Foundations shall bear on undisturbed soil. Providing a safe bearing capacity of not less than 3000 psf.
8. Fill and backfill under all slabs, pavings and walks, etc. shall be made with coarse sand, gravel, or crushed stone, compacted to not less than 100% of maximum dry density per ASTM D 698.
9. All glue laminated beams shall be designed and fabricated for the following allowable stresses:
Bending Stress = 2,400 psi
Shear Stress = 165 psi
Modulus of Elasticity = 1,800,000 psi



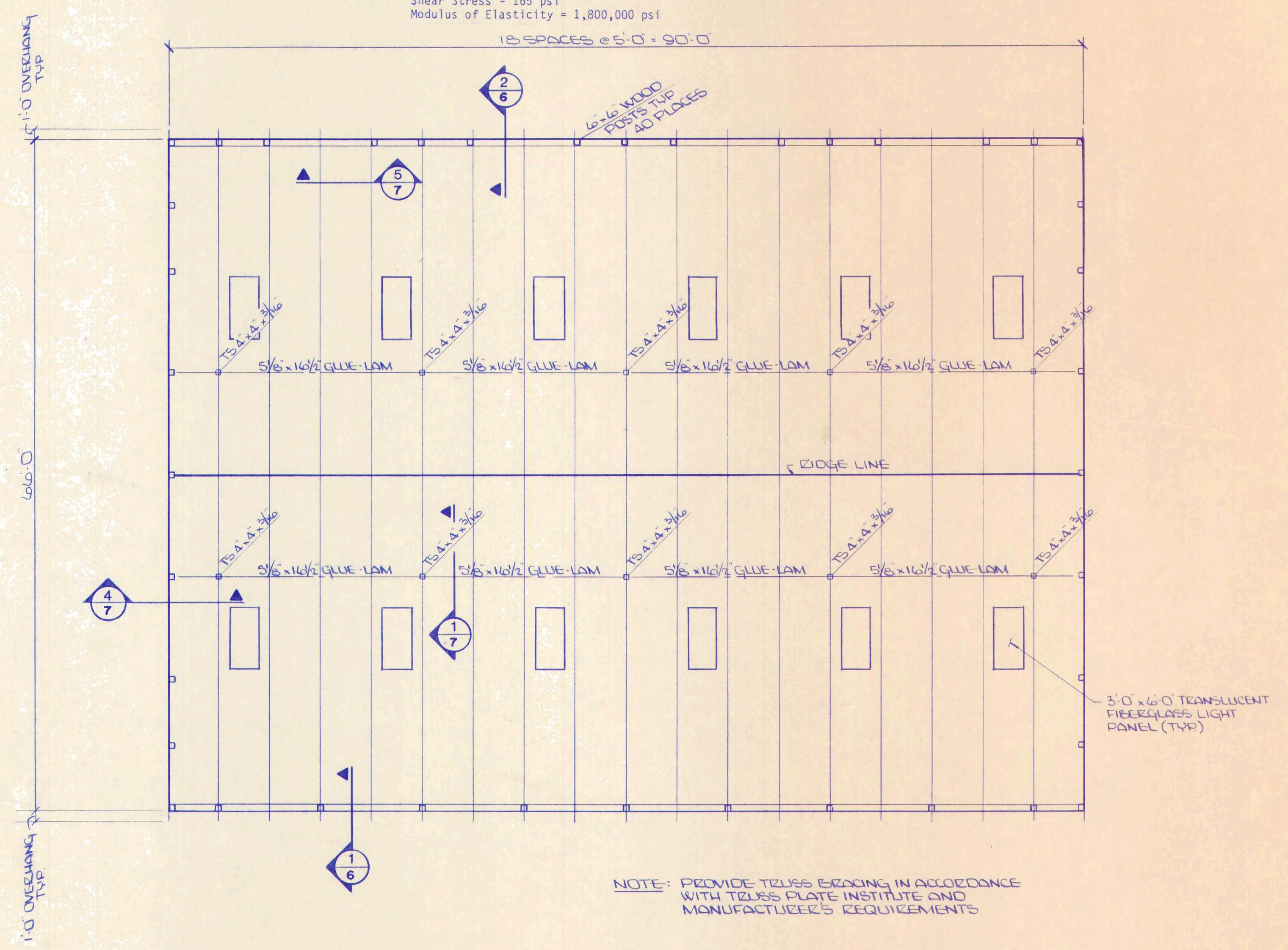
SECTION 1
1/2" = 1'-0"



SECTION 2
1/2" = 1'-0"



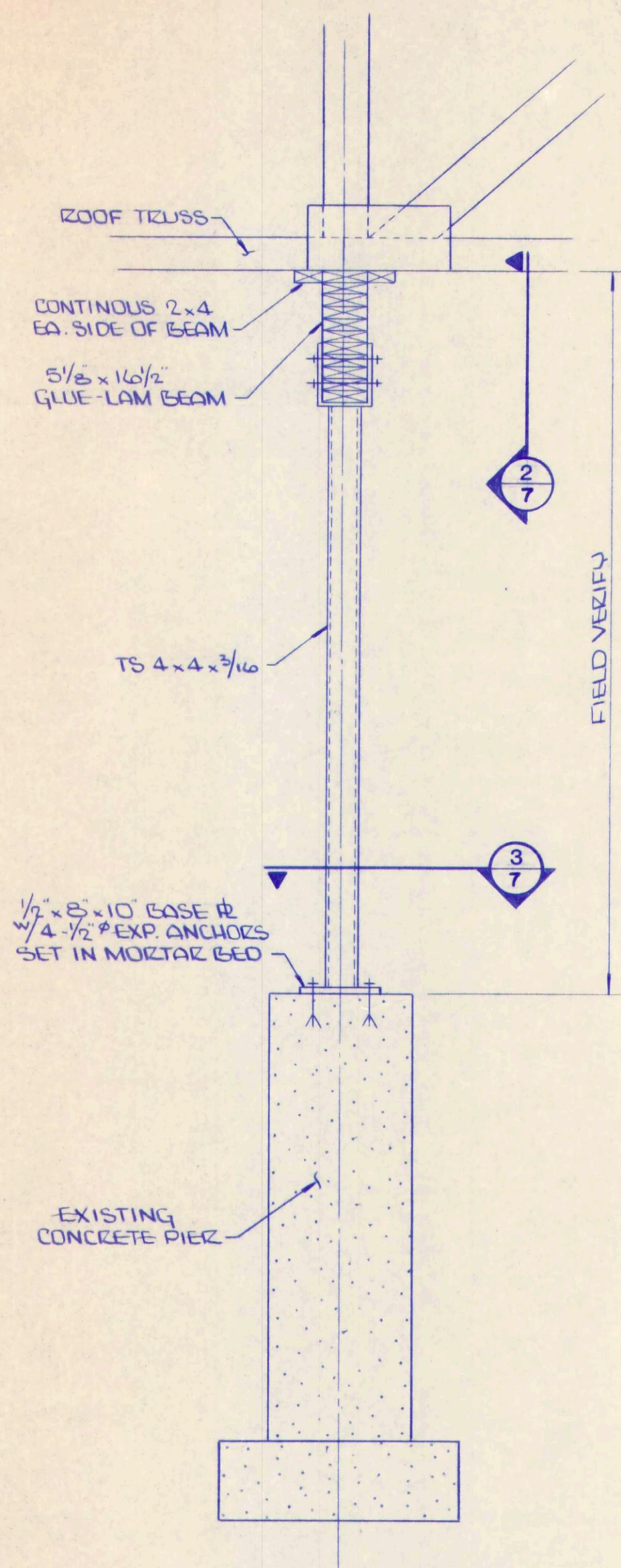
TRUSS LOADING DIAGRAM
3/16" = 1'-0"



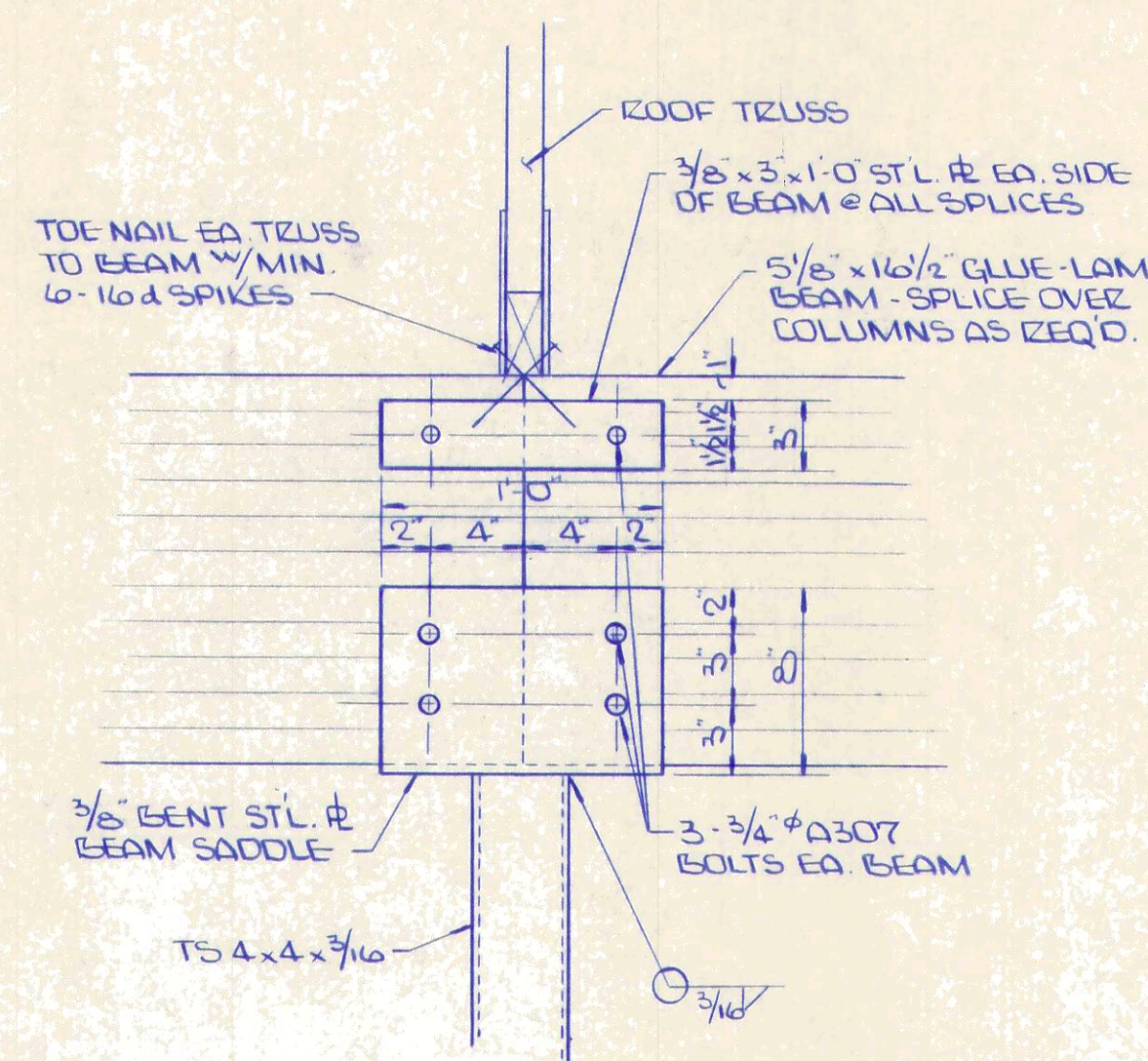
ROOF FRAMING PLAN
1/8" = 1'-0"



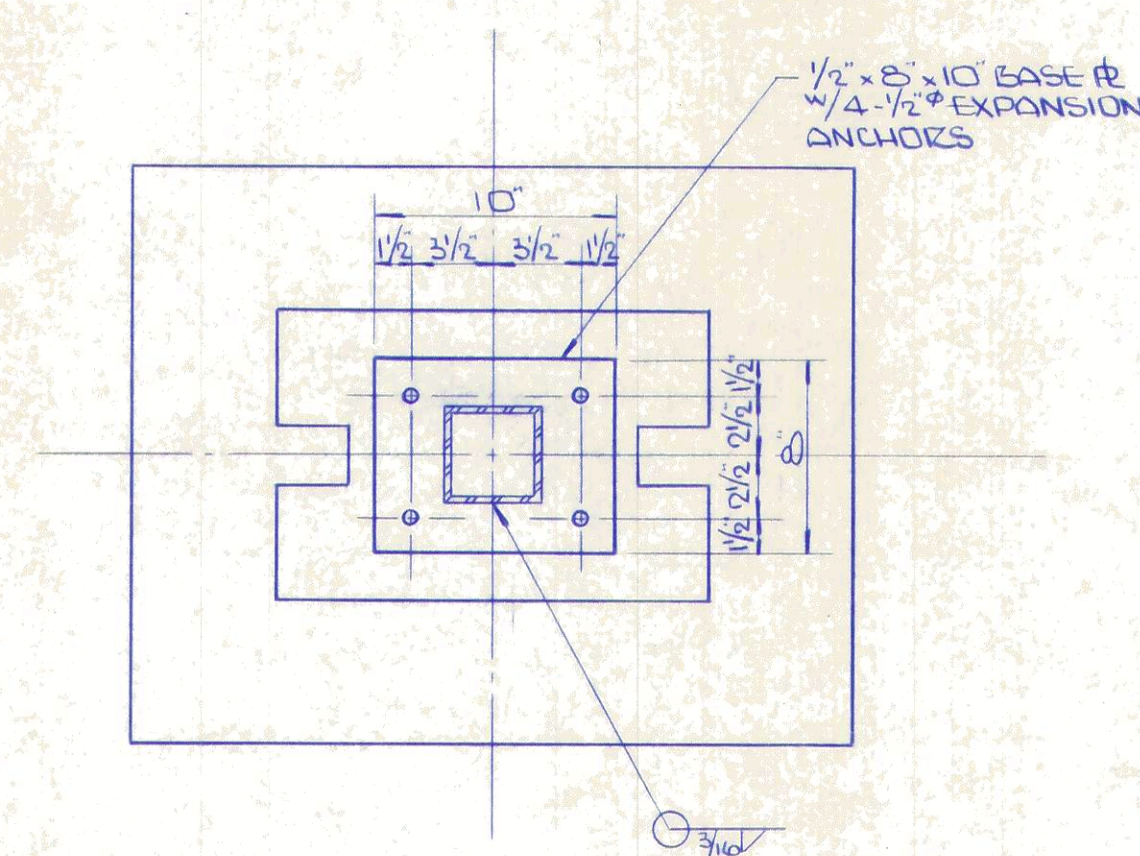
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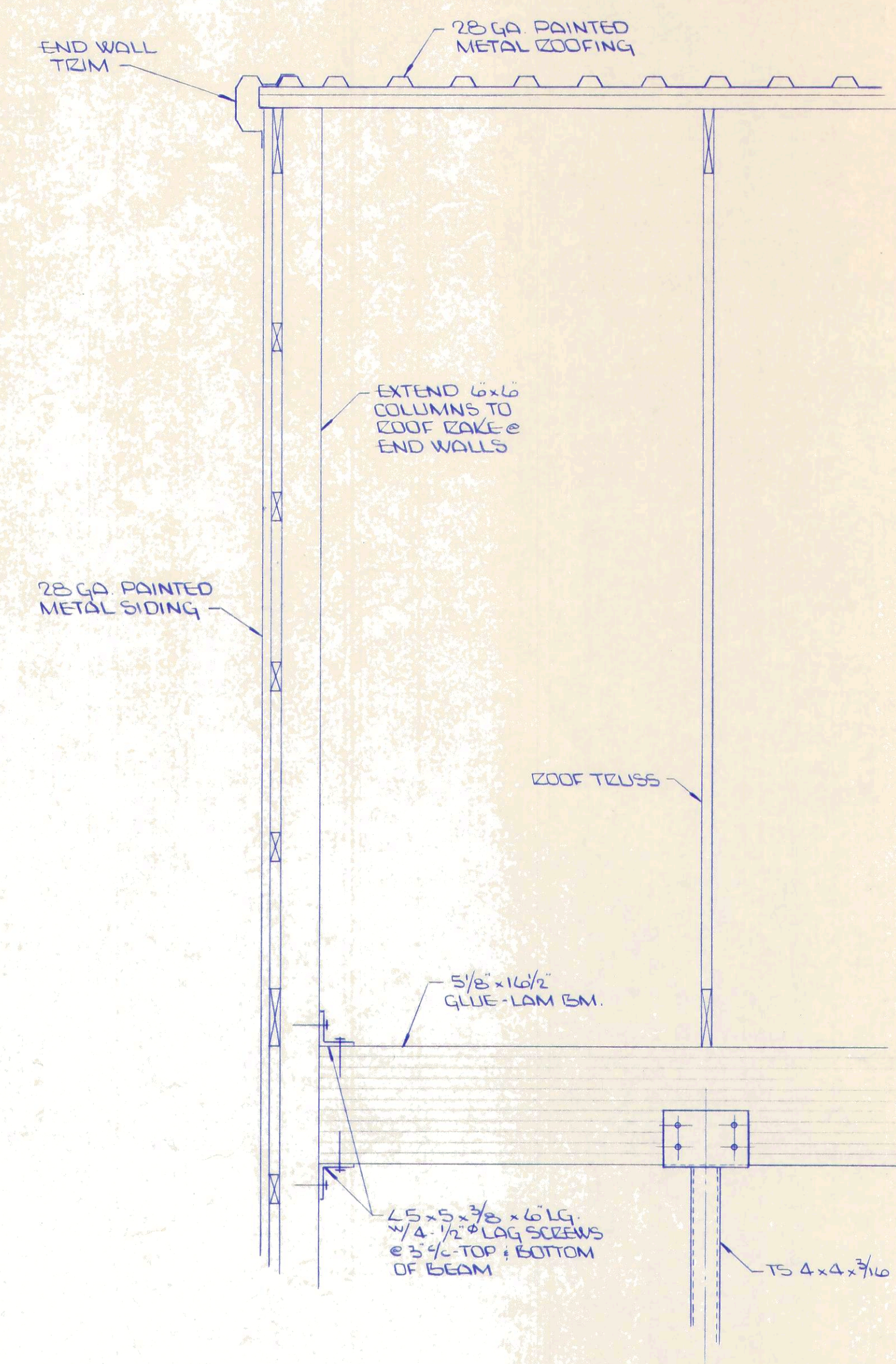
SECTION 1
3/4" - 1'-0" (1/7)



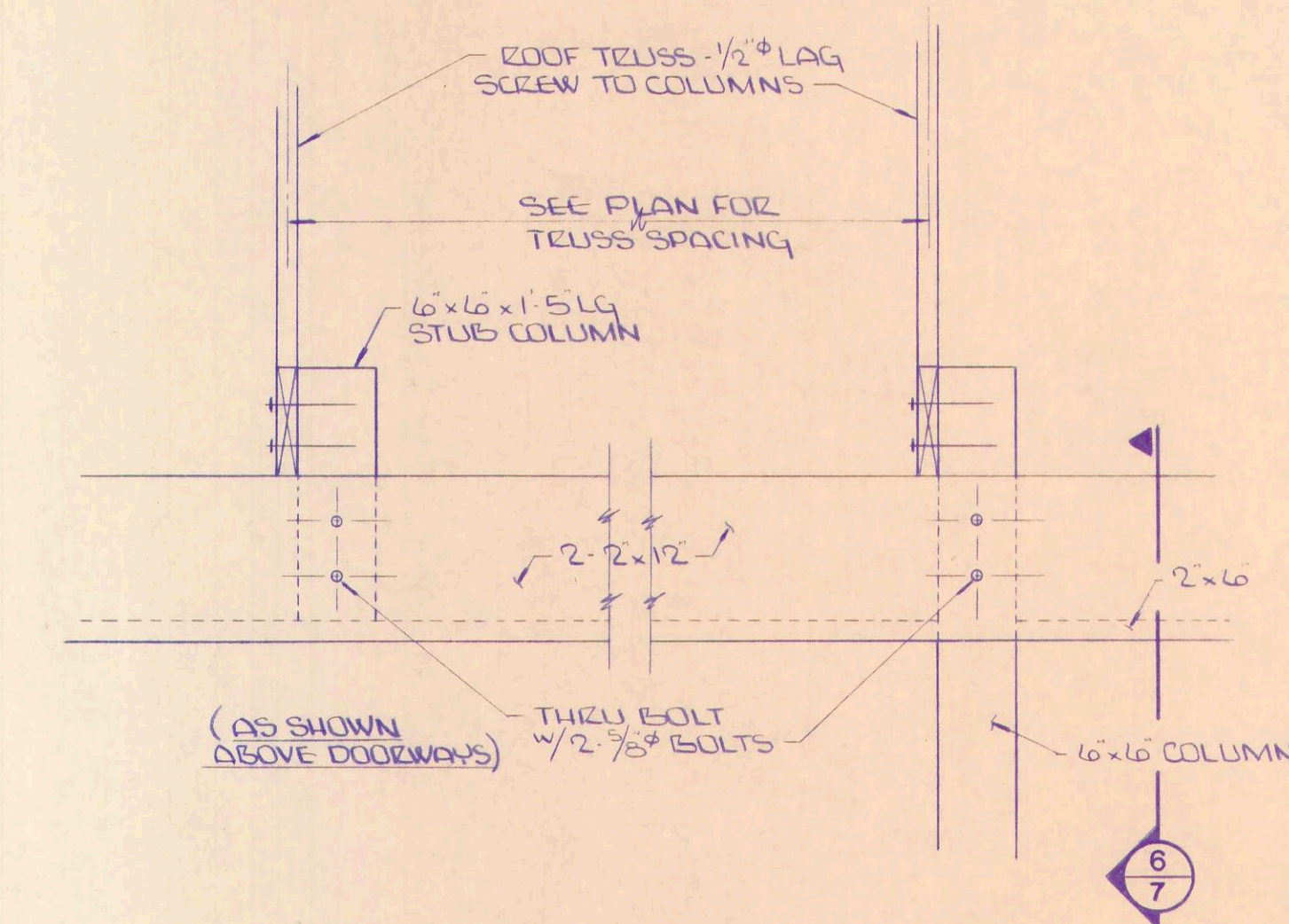
SECTION 2
1/2" - 1'-0" (2/7)



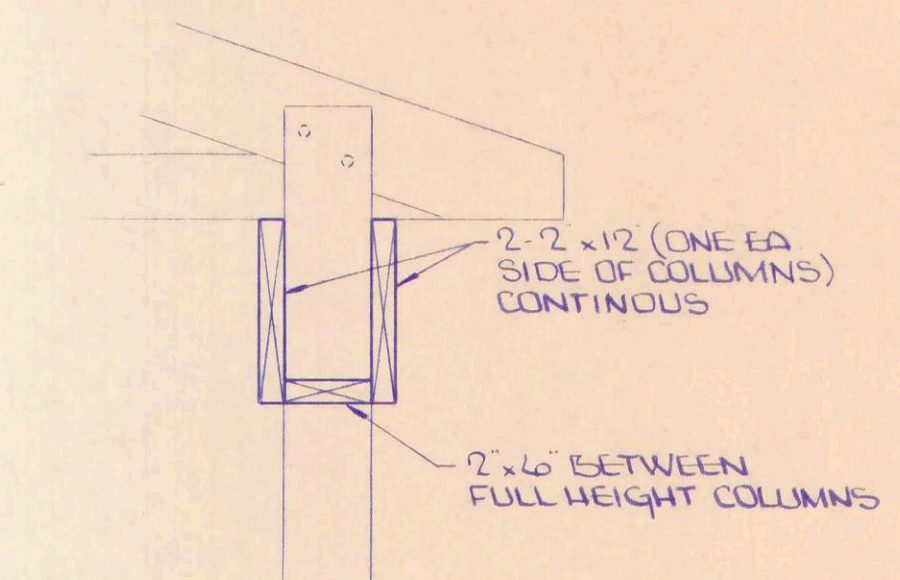
SECTION 3
1/2" - 1'-0" (3/7)



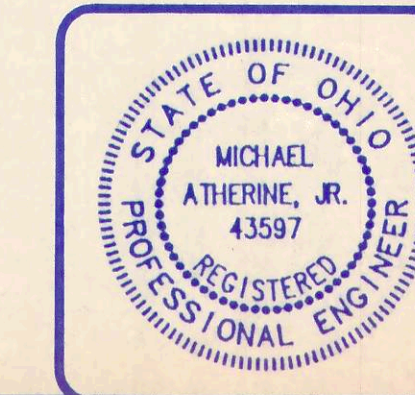
SECTION 4
3/4" - 1'-0" (4/7)



SECTION 5
1'-1'-0" (5/6)

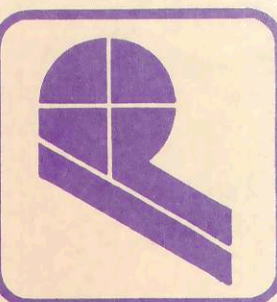


SECTION 6
1'-1'-0" (6/7)



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SECTIONS

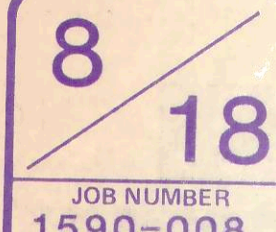


POGMEYER DESIGN GROUP, INC.
PLANNERS
ARCHITECTS
ENGINEERS

**WASTEWATER TREATMENT
PLANT IMPROVEMENTS
OAK HARBOR, OHIO**

DRAWN BY	CHECKED BY	DATE
KLO		
REVISION		

7/18
JOB NUMBER
1590-008



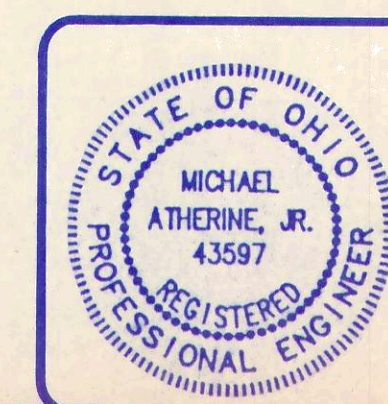
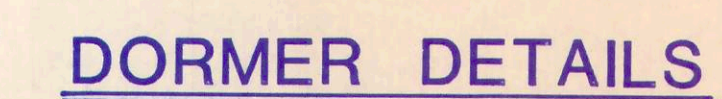
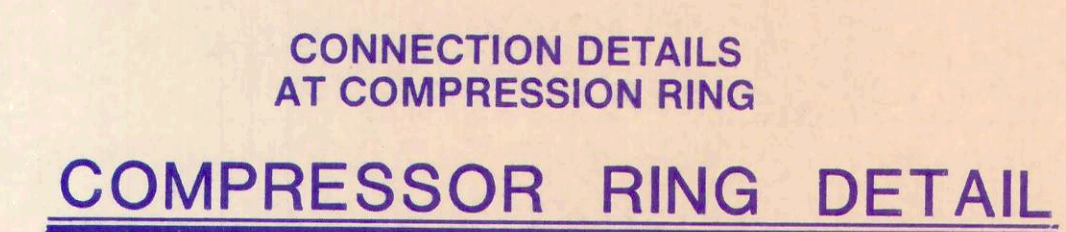
SECTION A
1/4"=1'-0"



WASTEWATER TREATMENT
PLANT IMPROVEMENTS
OAK HARBOR, OHIO

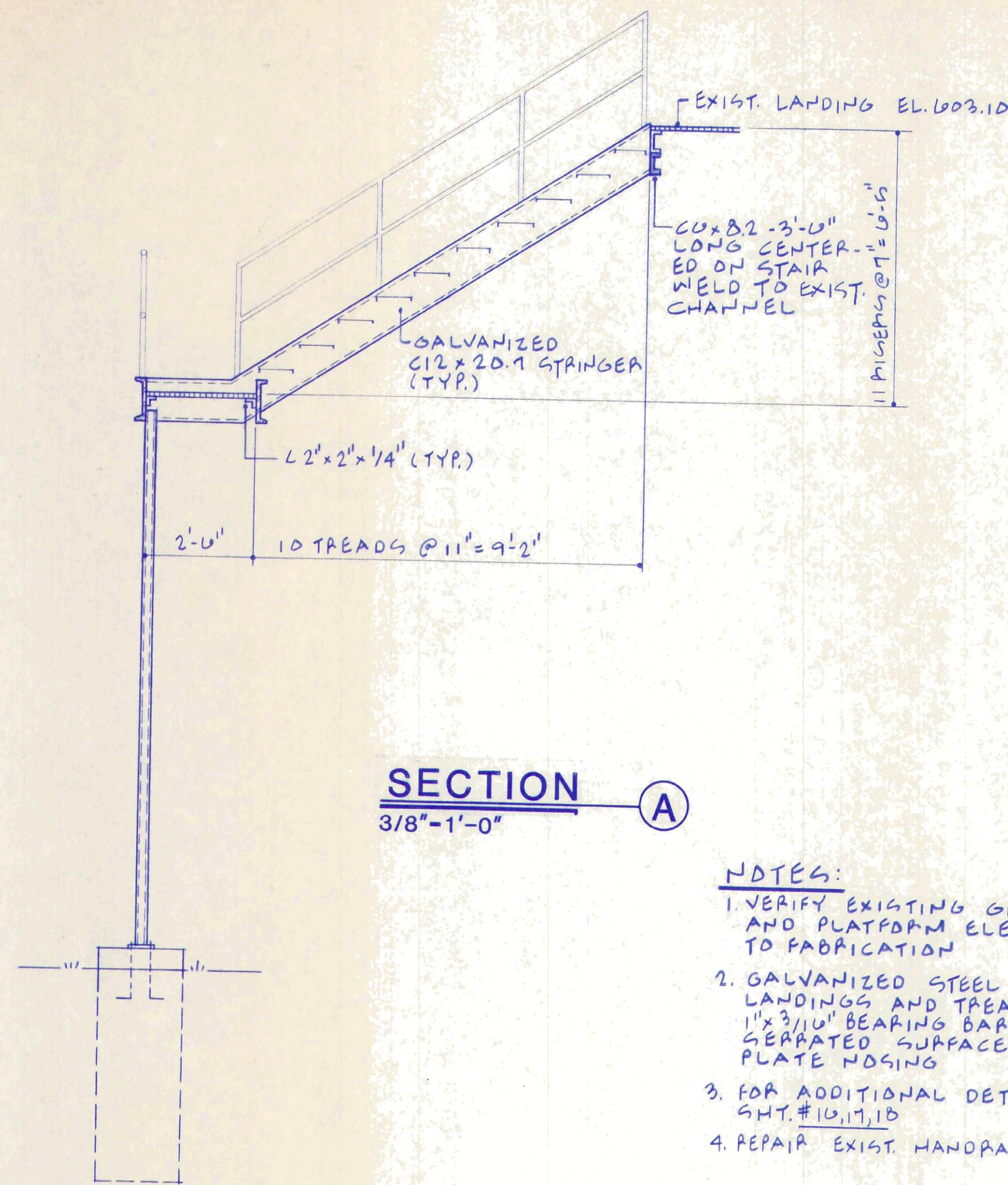
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9/18
JOB NUMBER
1590-008



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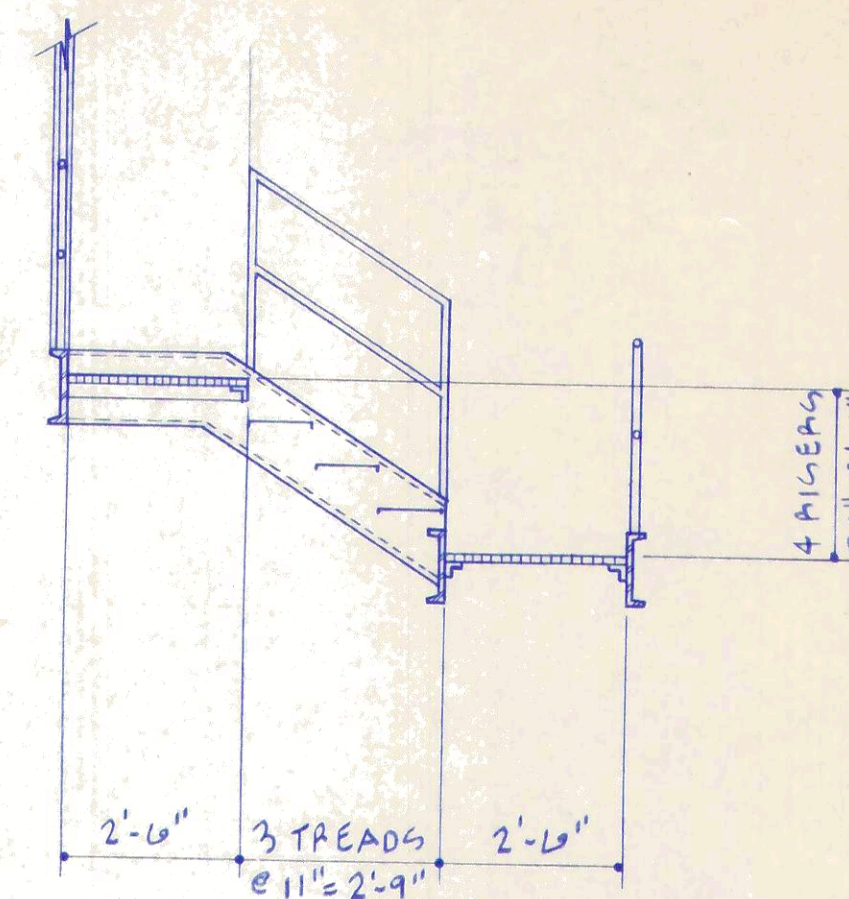
EXISTING TRICKLING FILTERS



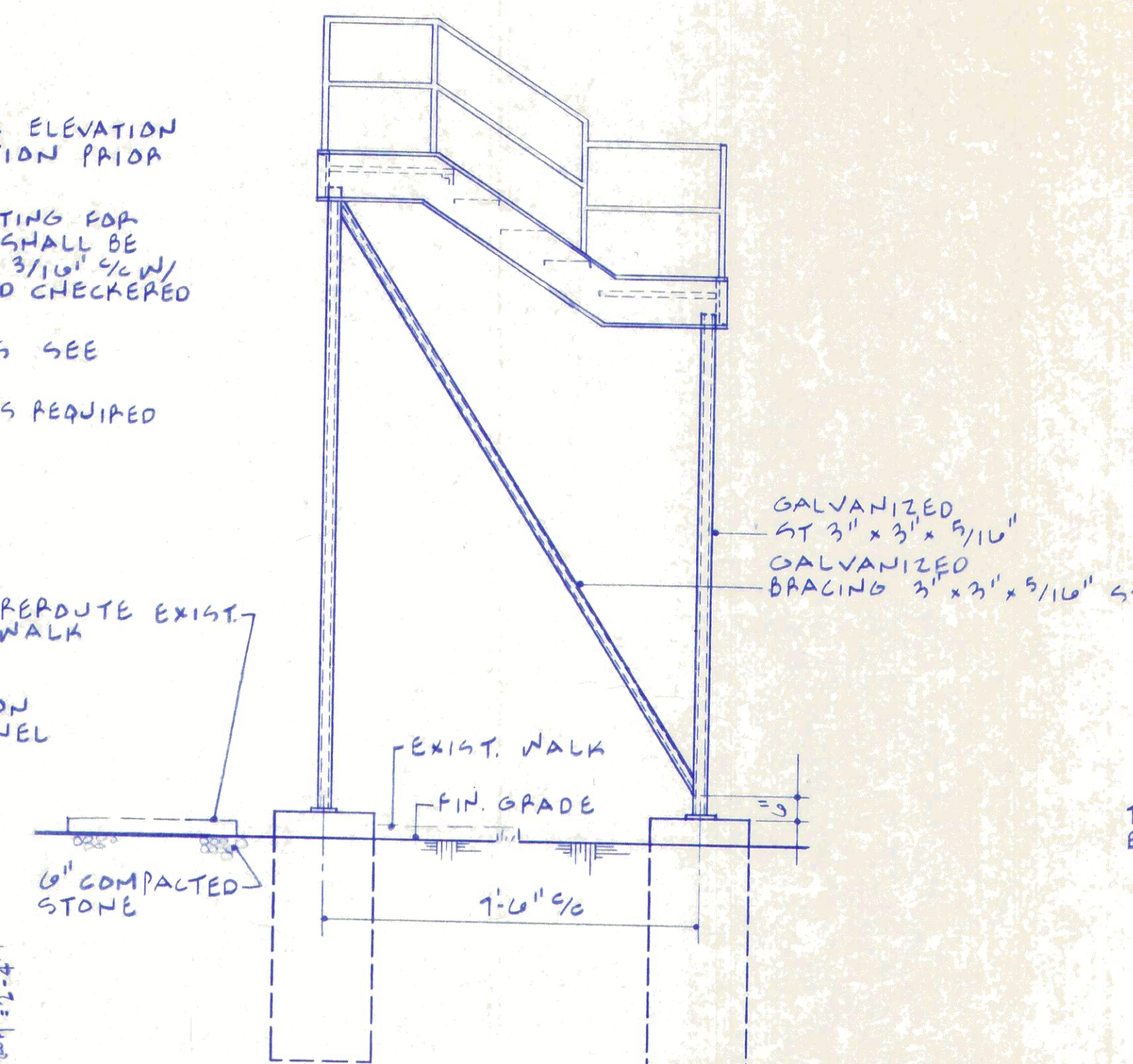
SECTION A
3/8"-1'-0"

NOTES:

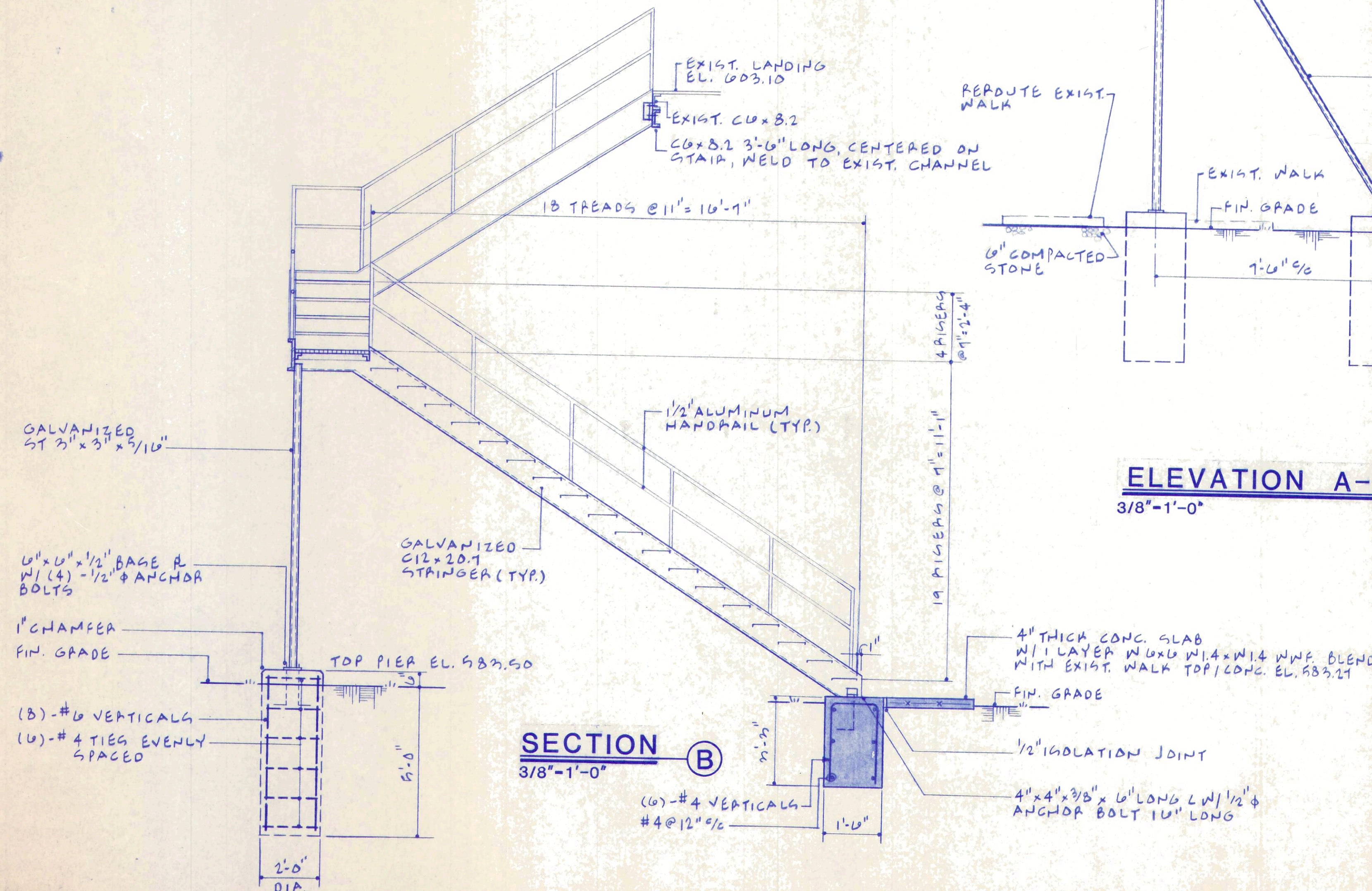
1. VERIFY EXISTING GRADE ELEVATION AND PLATFORM ELEVATION PRIOR TO FABRICATION
2. GALVANIZED STEEL GRATING FOR LANDINGS AND TREADS SHALL BE 1" x 3/16" BEARING BARS @ 13/16" x 5/16" W/ GERRATED SURFACE AND CHECKERED PLATE NO. 50
3. FOR ADDITIONAL DETAILS SEE SHT. #10, 11, 12
4. REPAIR EXIST. HANDRAIL AS REQUIRED



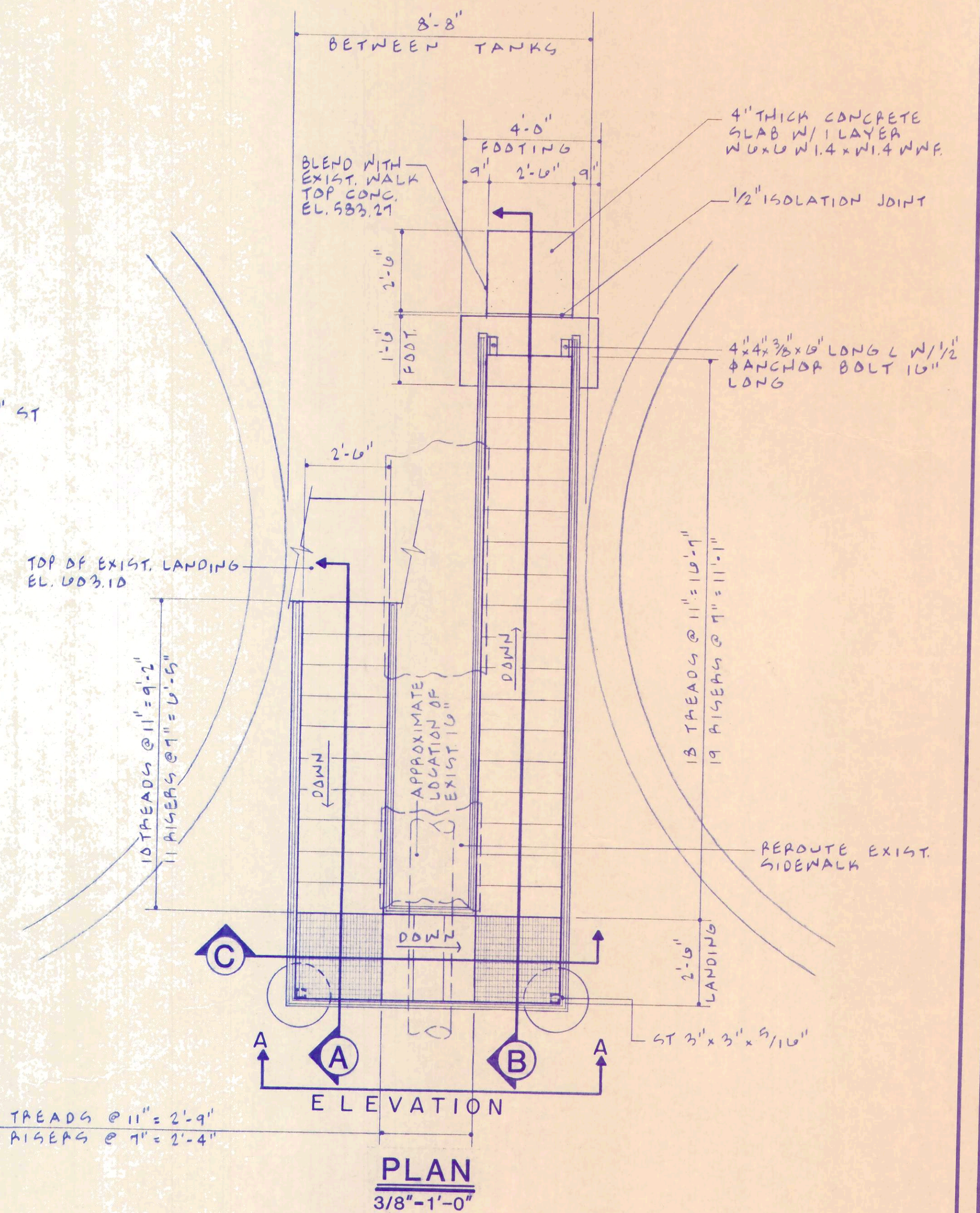
SECTION C
3/8"-1'-0"



ELEVATION A-A
3/8"-1'-0"



SECTION B
3/8"-1'-0"



PLAN
3/8"-1'-0"

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NEW STAIRS AT TRICKLING FILTERS

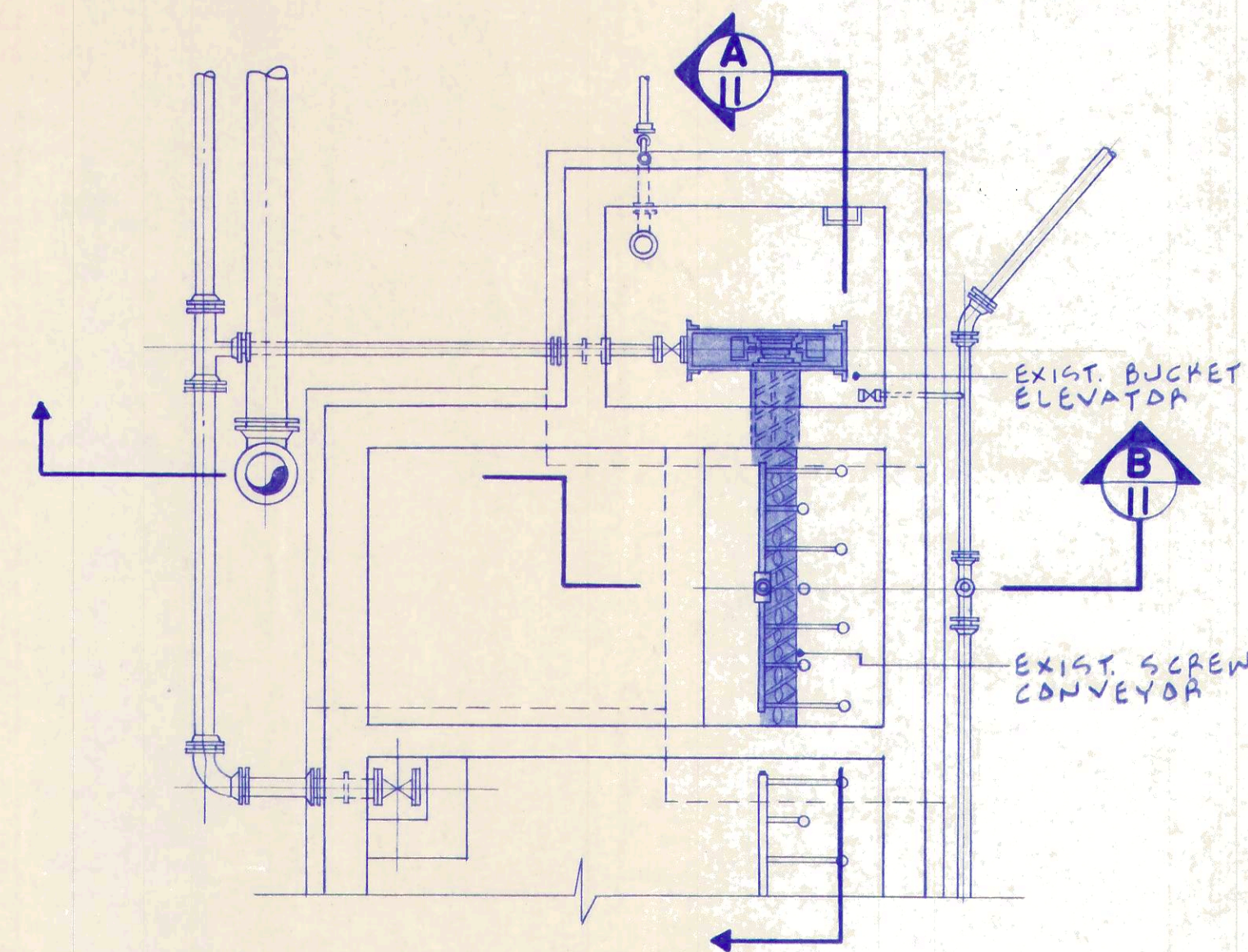


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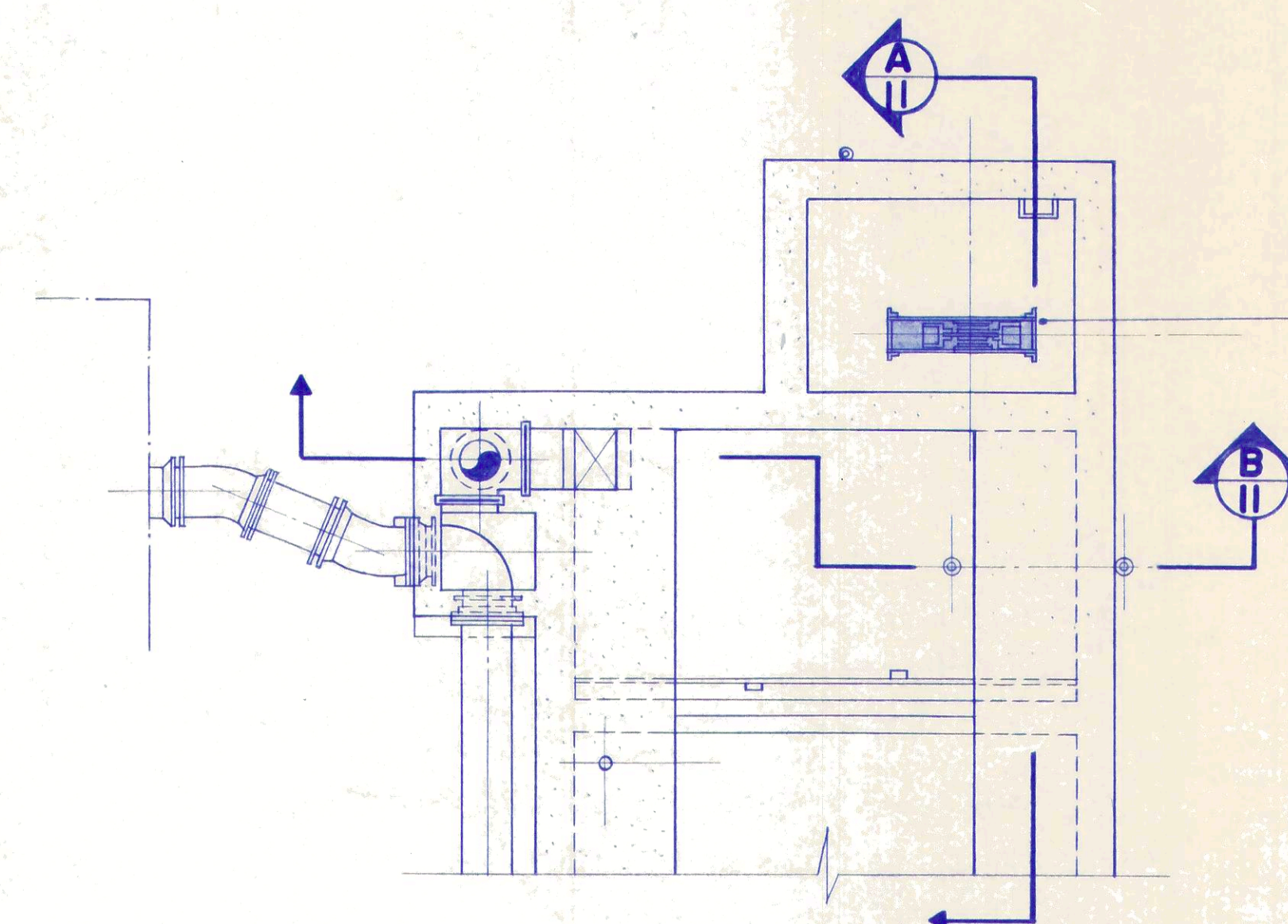
**WASTEWATER TREATMENT
PLANT IMPROVEMENTS
OAK HARBOR, OHIO**

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REVISION		

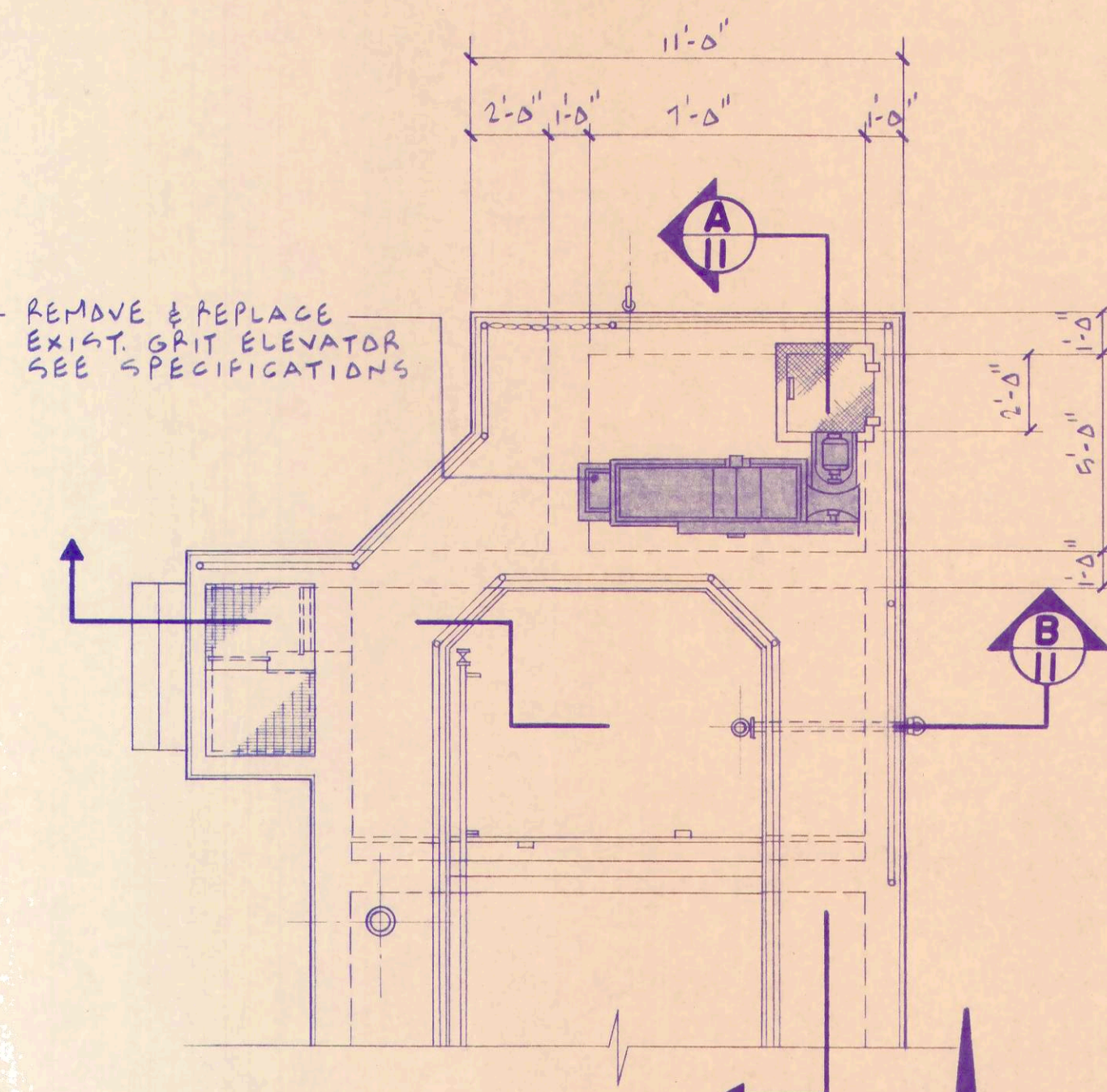
10
18
JOB NUMBER
1590-008



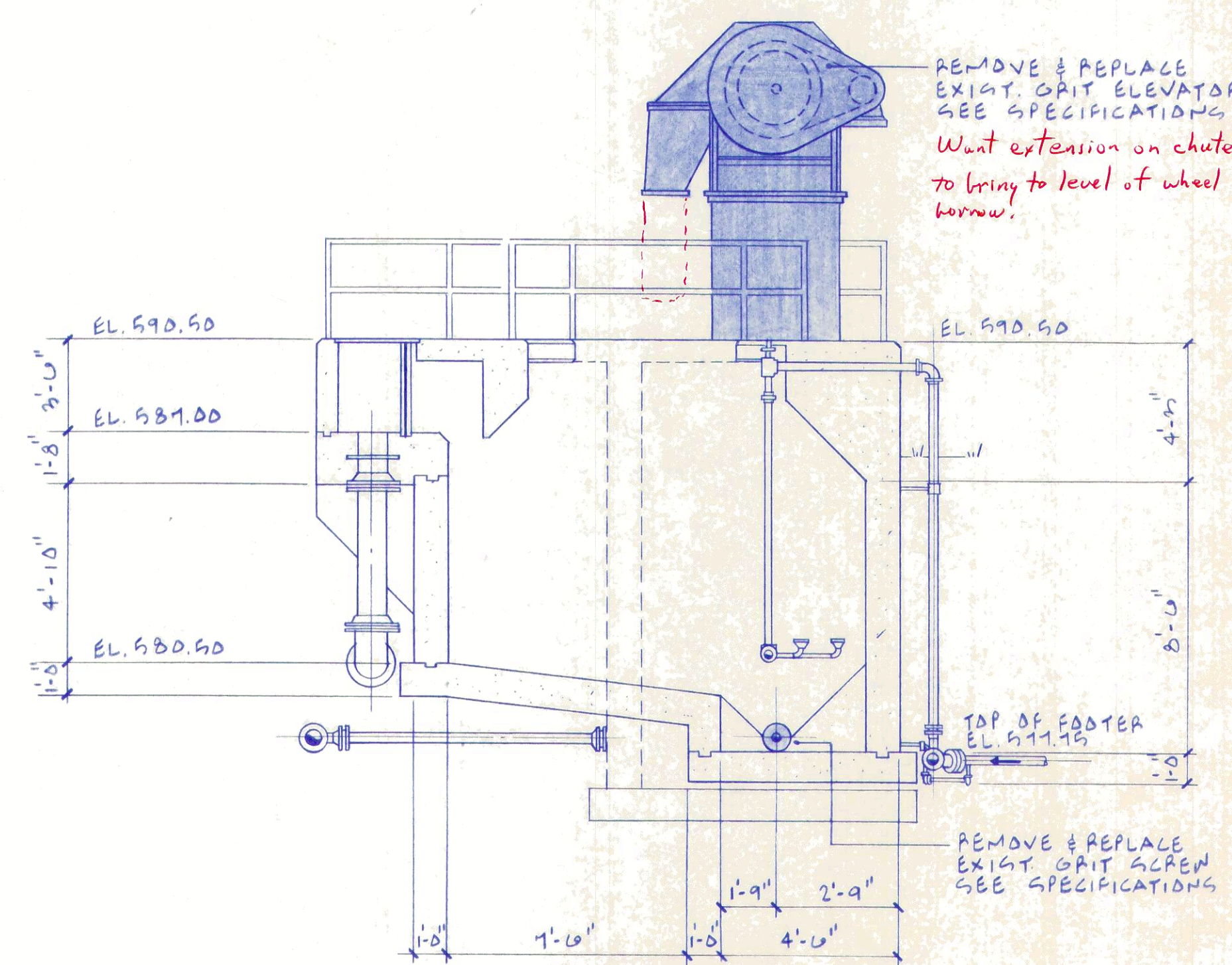
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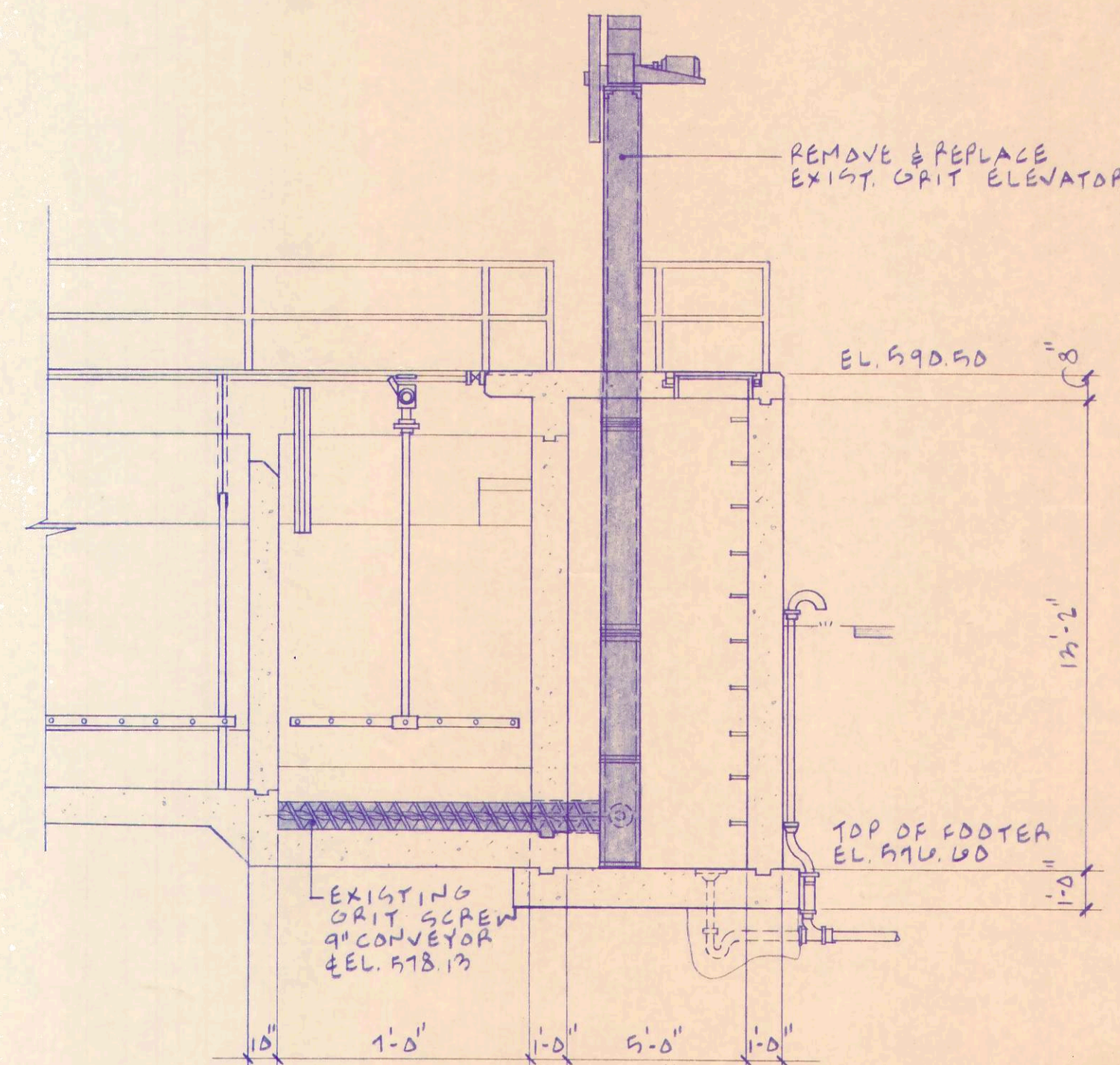
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EXIST.



PLAN
EXIST.
1/4"=1'-0"

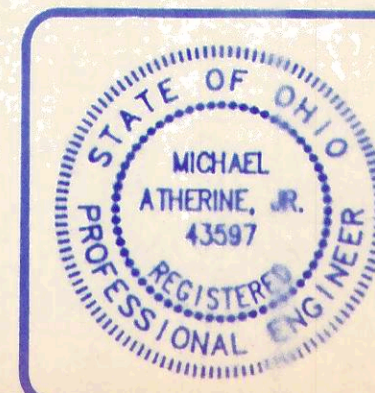


SECTION A
EXIST.
1/4"=1'-0"



SECTION B
EXIST.
1/4"=1'-0"

CONTRACTOR NOTE:
VERIFY EXISTING CONDITIONS AND
DIMENSIONS BEFORE PROCEEDING
WITH WORK



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AIR DEGRITTING - PREAERATION TANK

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REVISION		



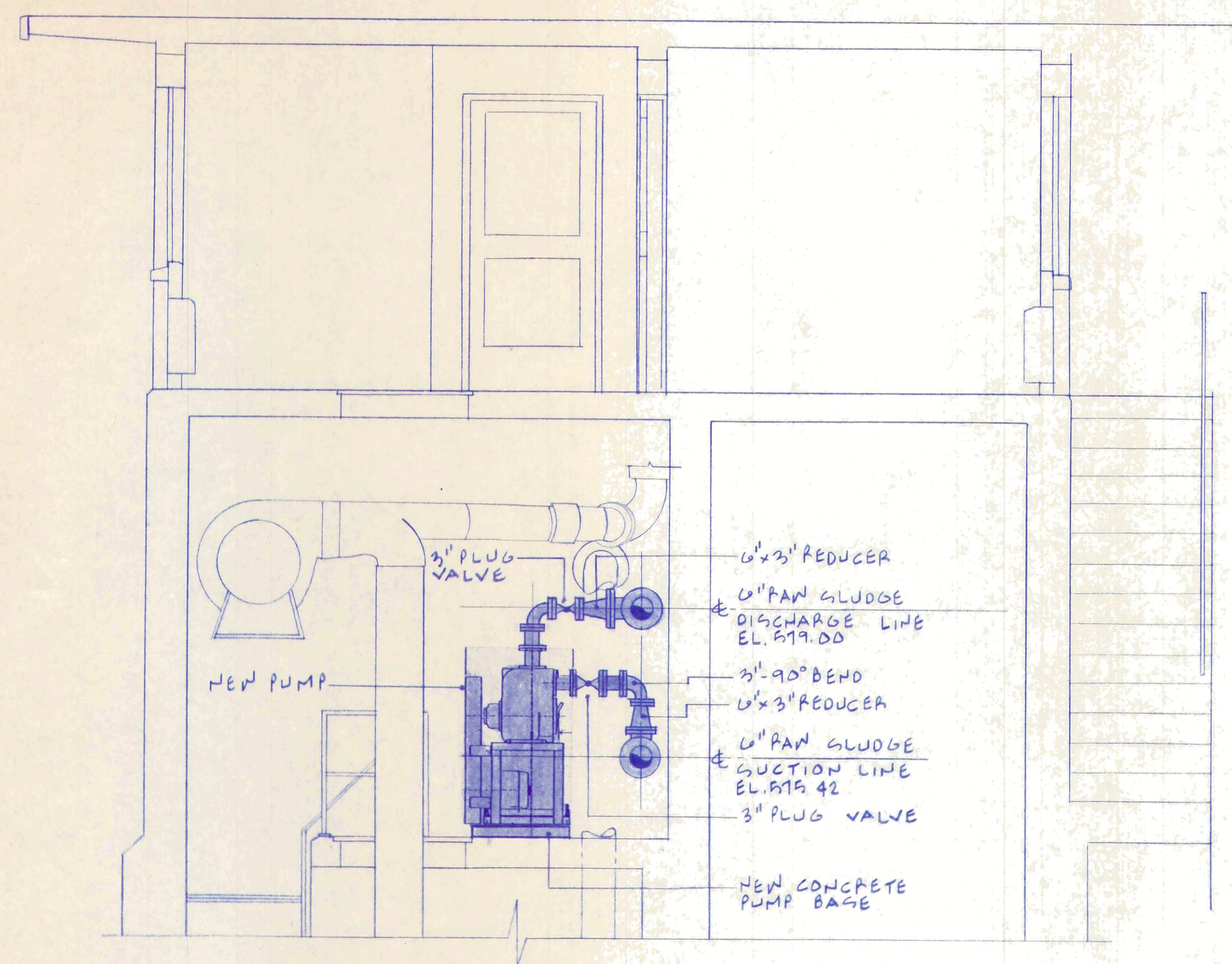
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WASTEWATER TREATMENT
PLANT IMPROVEMENTS
OAK HARBOR, OHIO

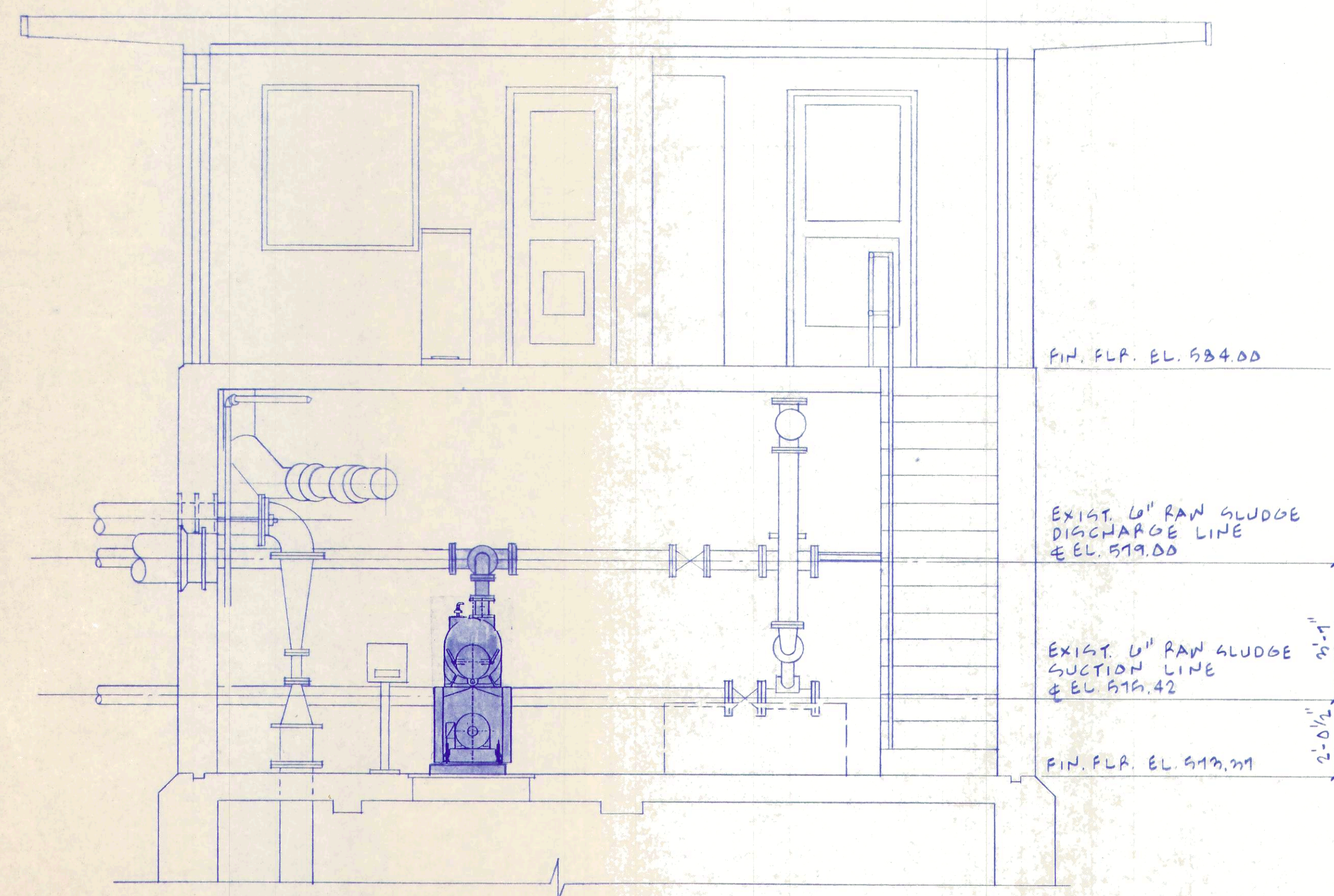
DRAWN BY
CHECKED BY
DATE

REVISION

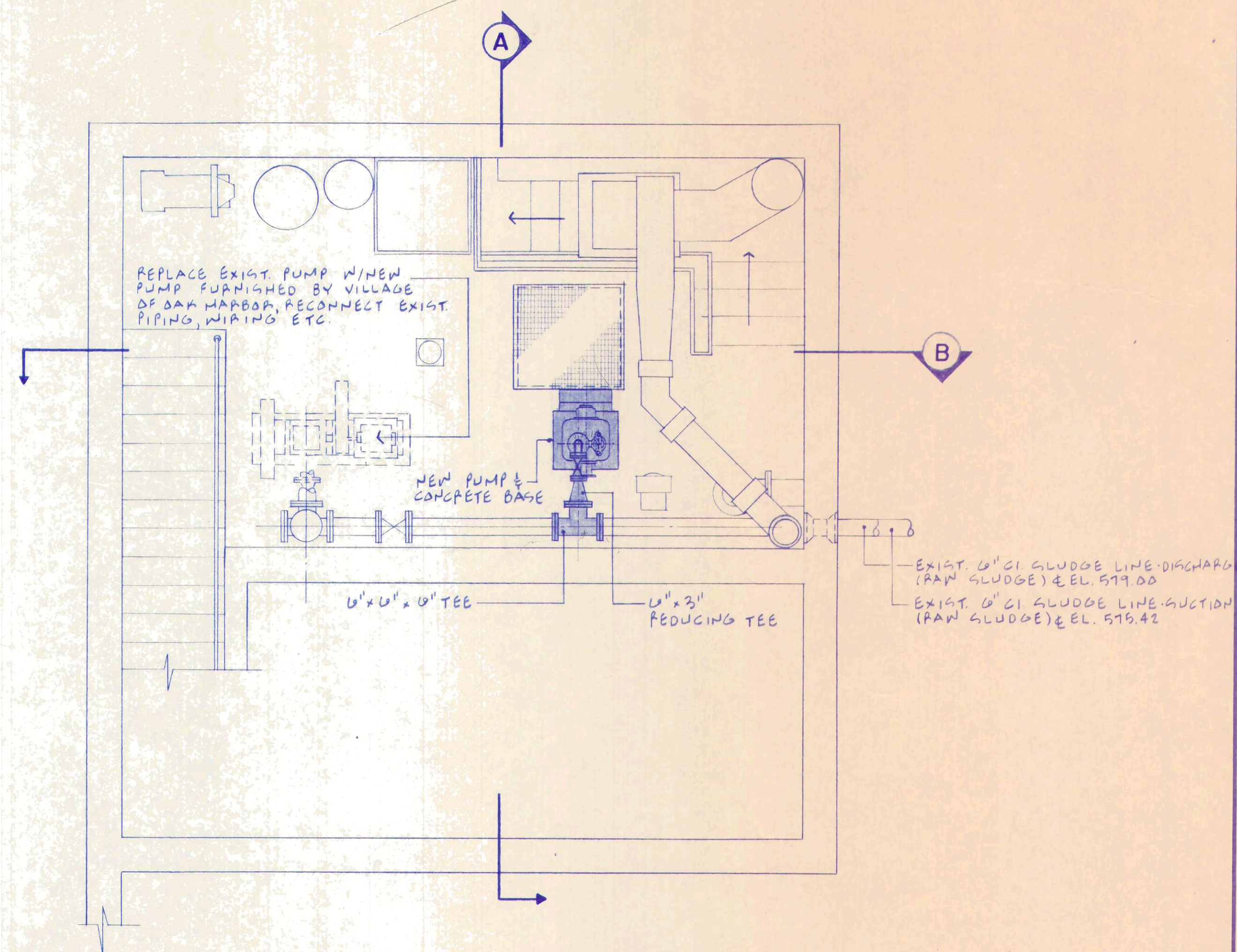
12
18
JOB NUMBER
1590-008



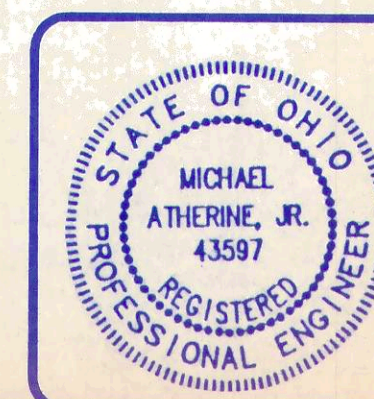
SECTION A
3/8"-1'-0"



SECTION B
3/8"-1'-0"



SECTIONAL PLAN AT ELEV. 573.37
3/8"-1'-0"

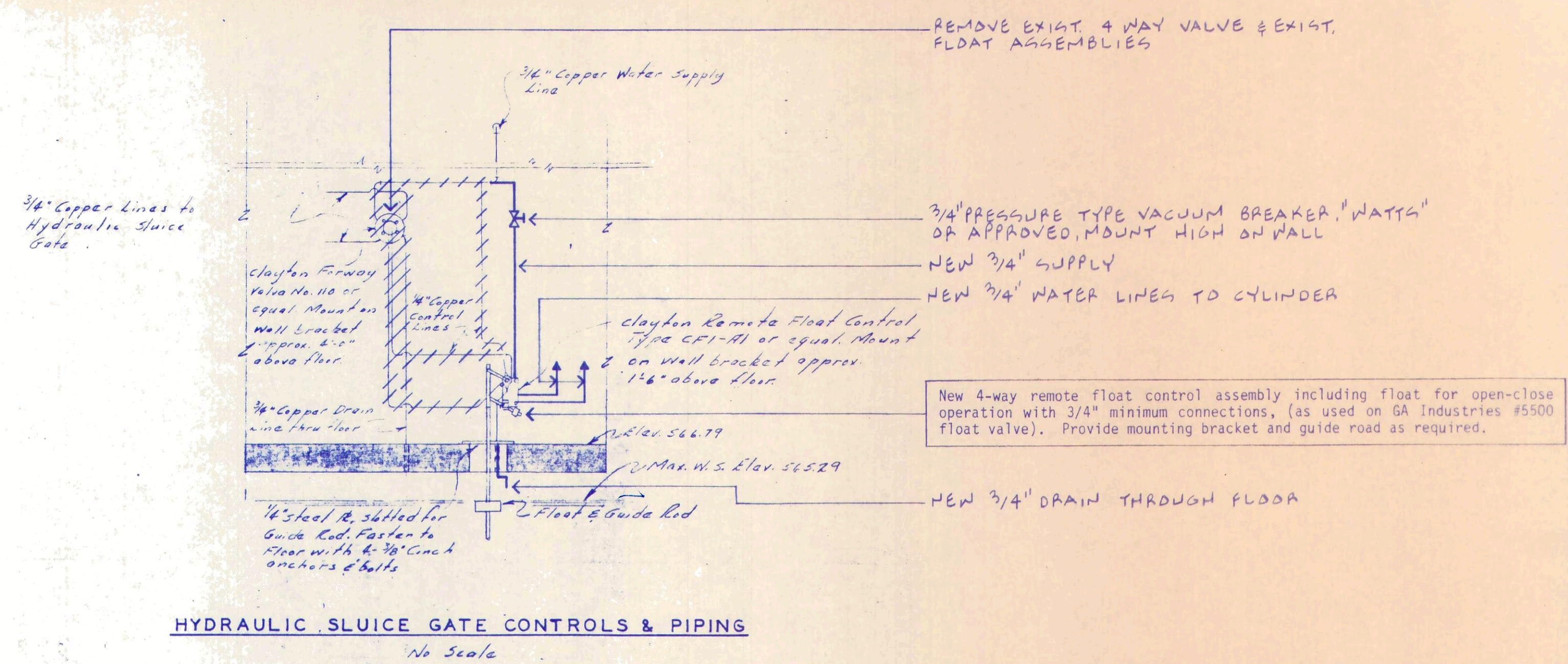


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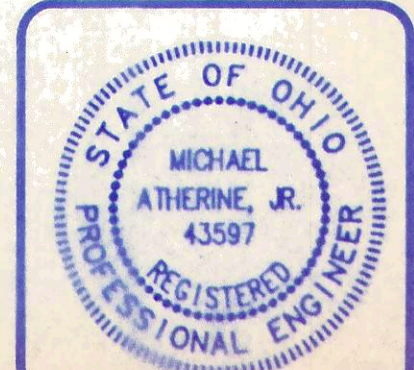
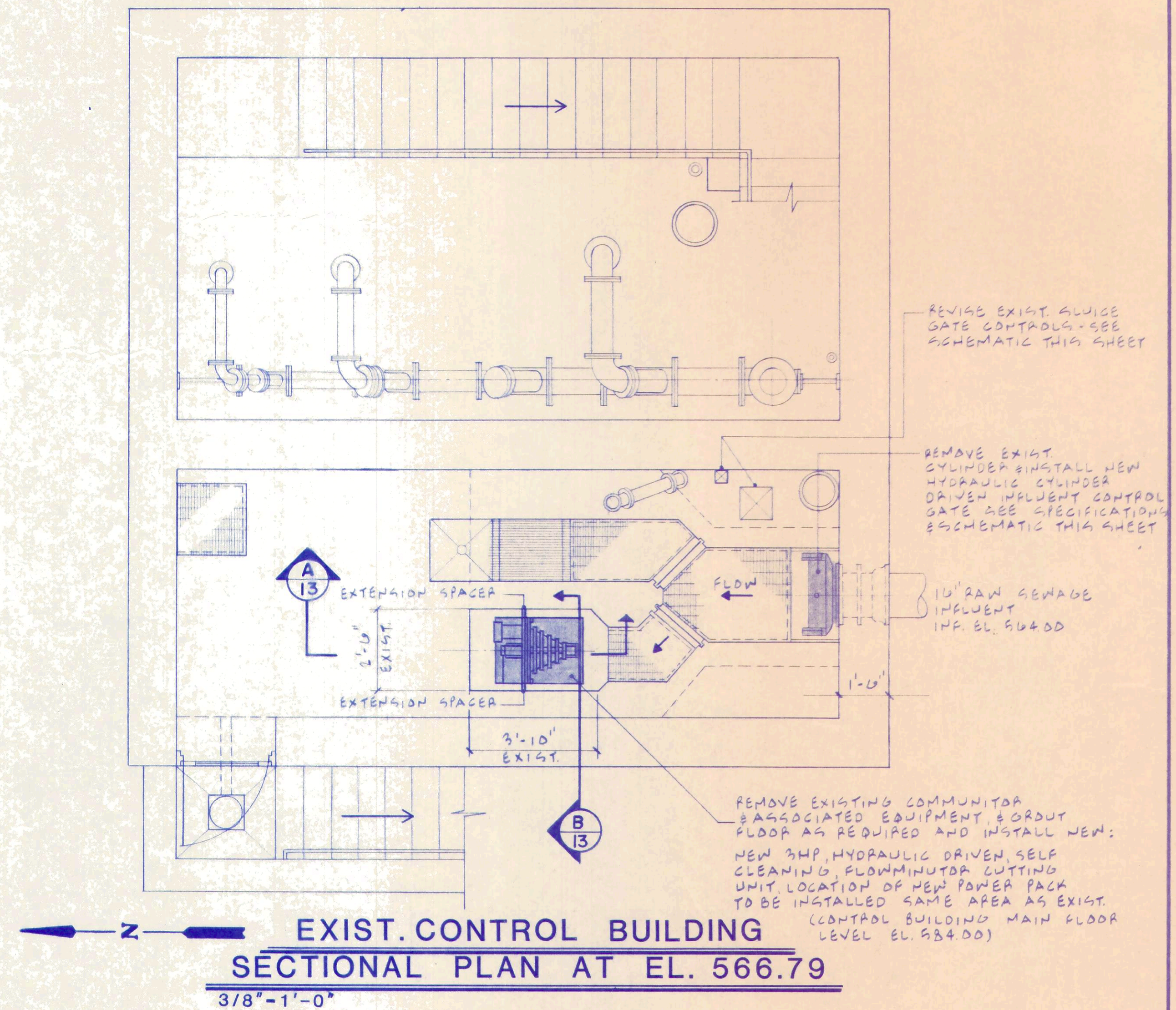
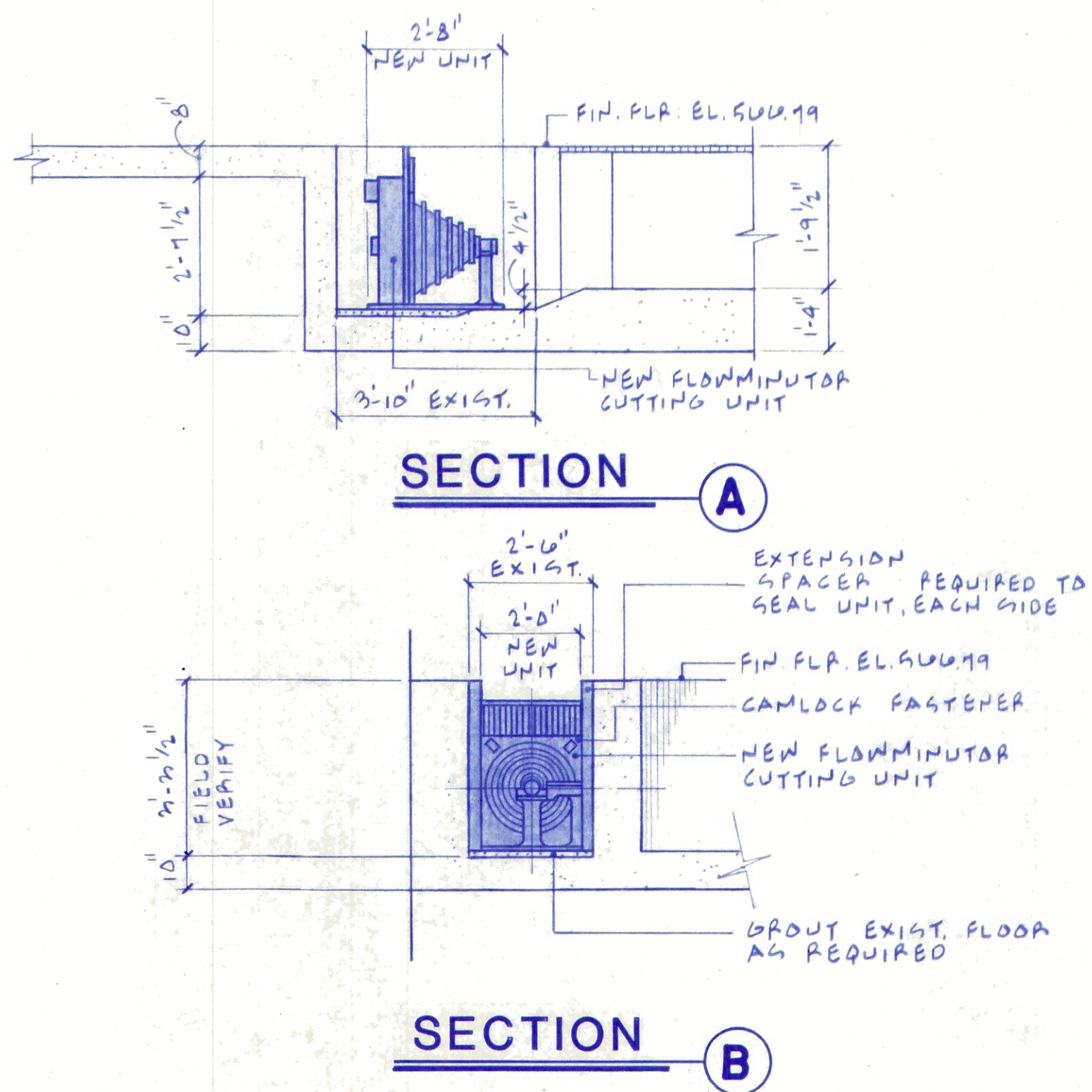
EXIST. CONTROL BUILDING



DATE	
CHECKED BY	
DRAWN BY	
REVISION	

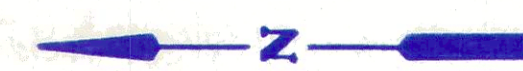
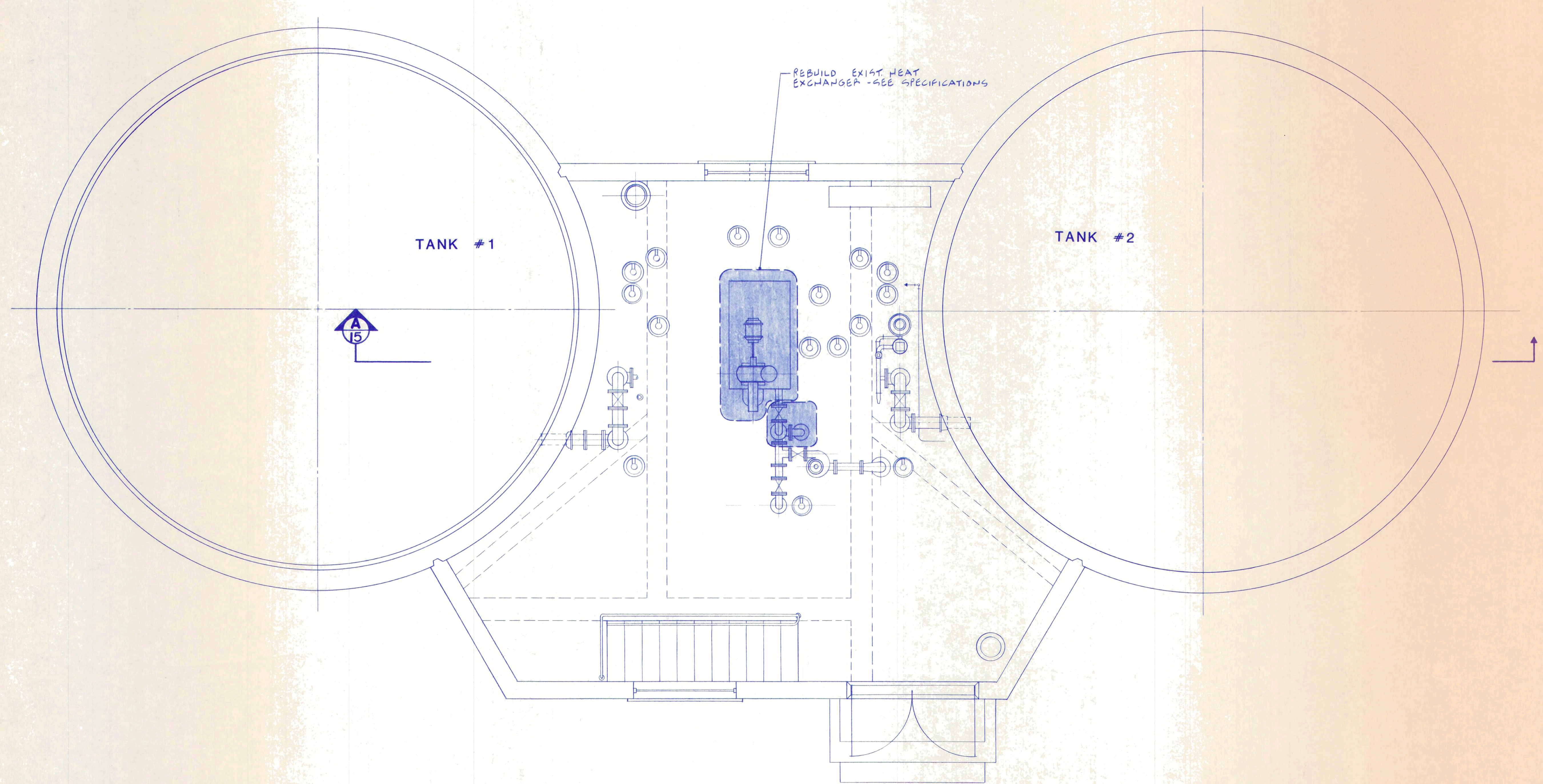


SCHEMATIC - REVISION TO EXISTING SLUICE GATE CONTROLS



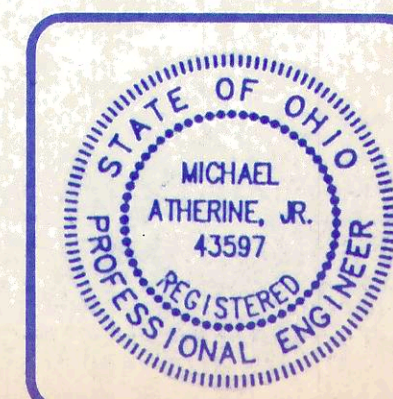
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EXIST. CONTROL BUILDING



FIRST FLOOR PLAN EXIST. SLUDGE DIGESTION TANKS

3/8"=1'-0"



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EXIST. SLUDGE DIGESTION TANKS

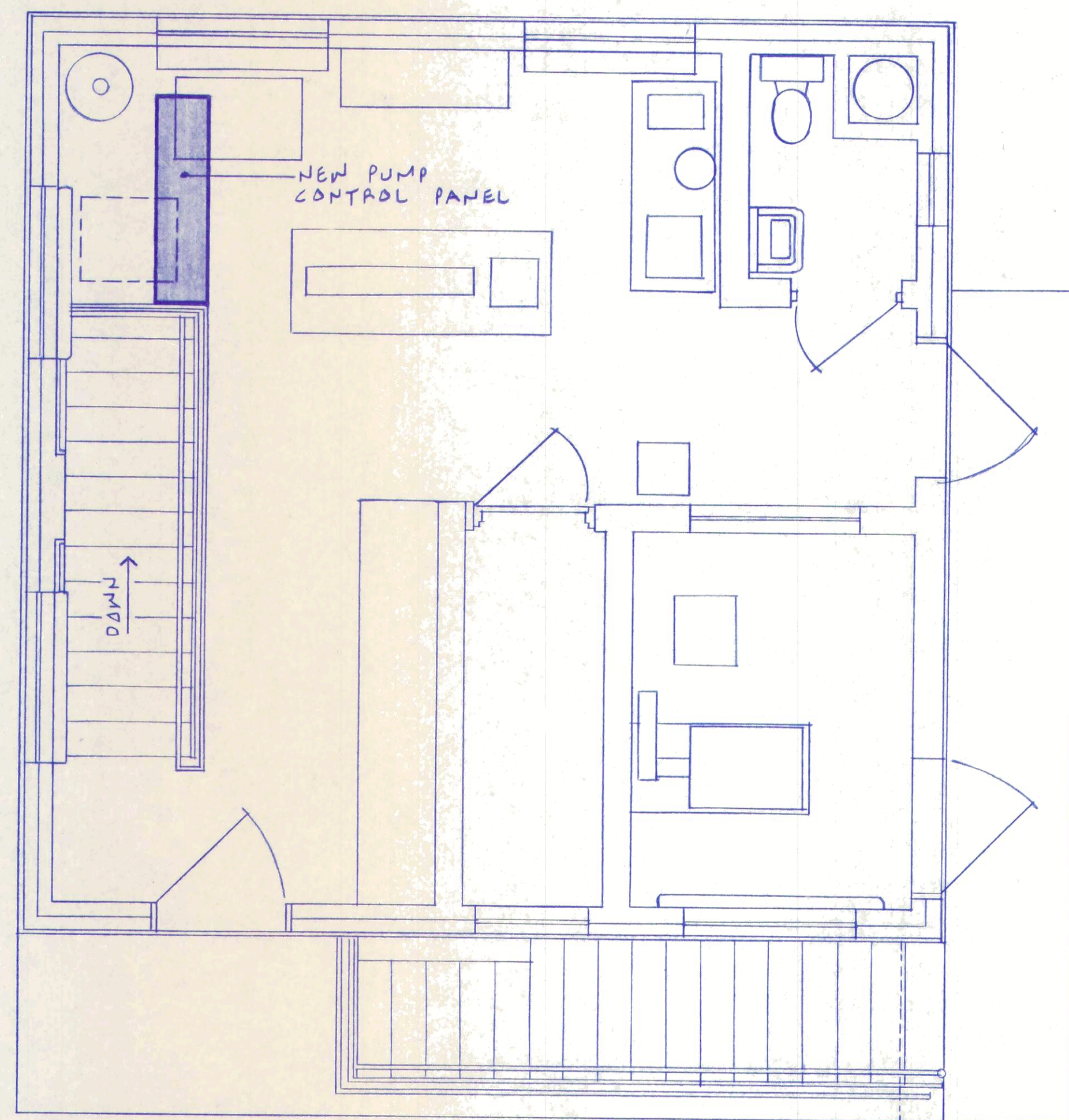


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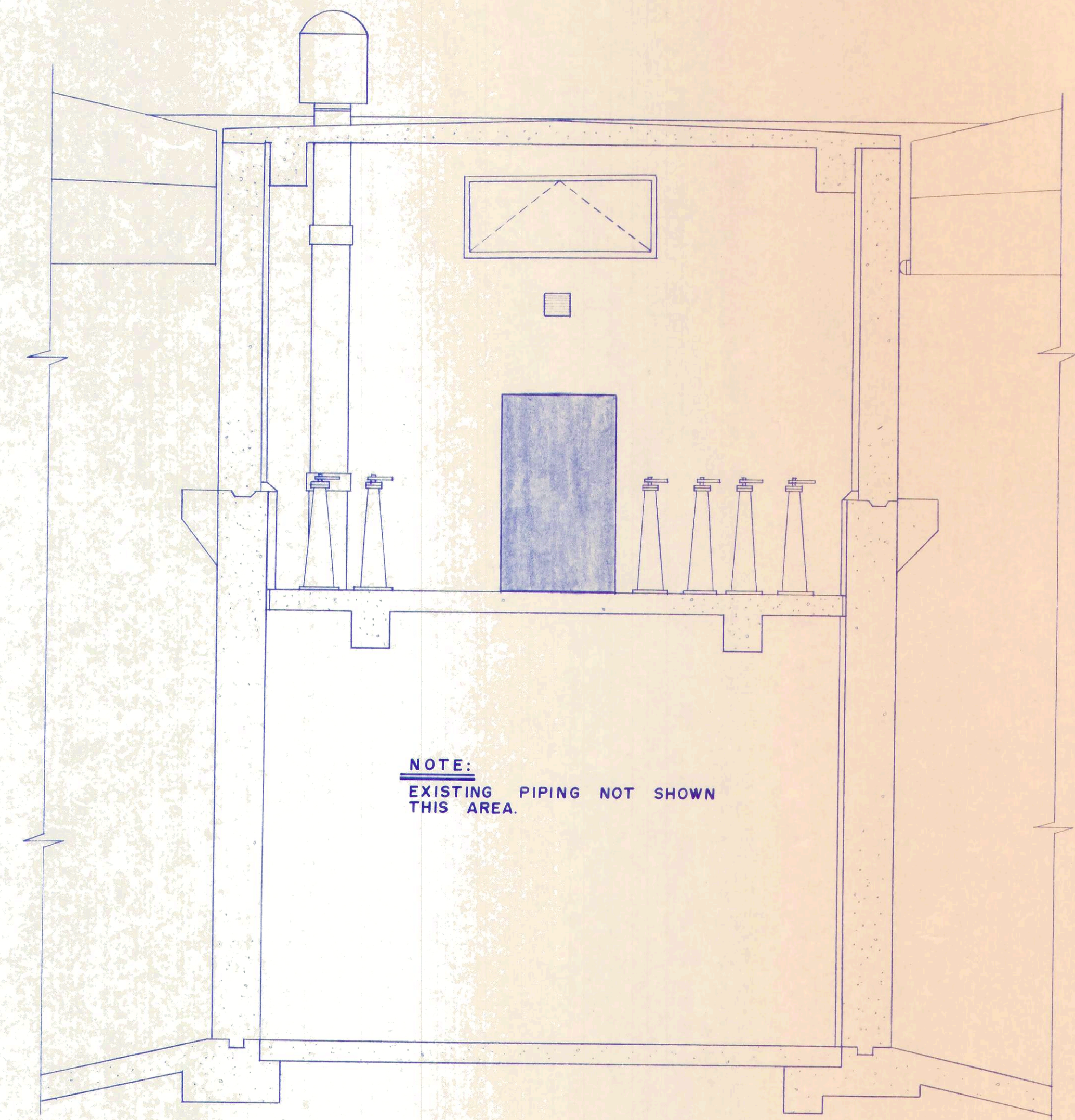
**WASTEWATER TREATMENT
PLANT IMPROVEMENTS
OAK HARBOR, OHIO**

DATE	CHECKED BY	DRAWN BY
REVISION		

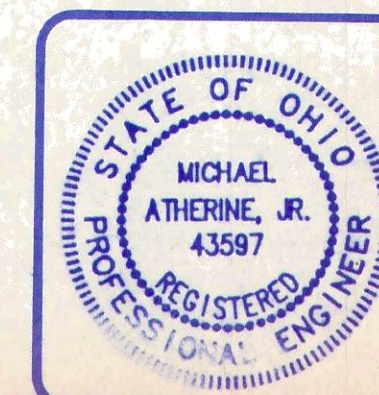
14
18
JOB NUMBER
1590-008



SECTIONAL PLAN AT ELEV. 584.00
3/8"=1'-0"



SECTION A
EXIST.
3/8"=1'-0"



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EXIST. SLUDGE DIGESTION TANKS

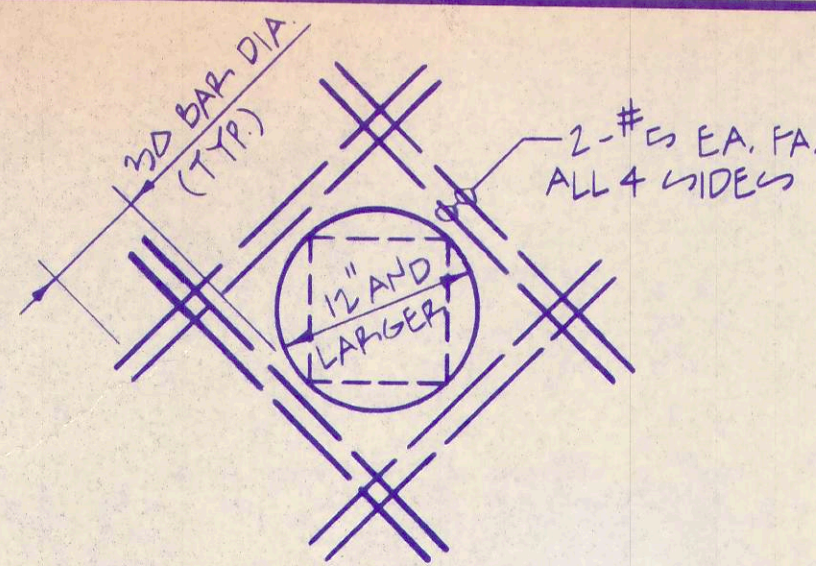


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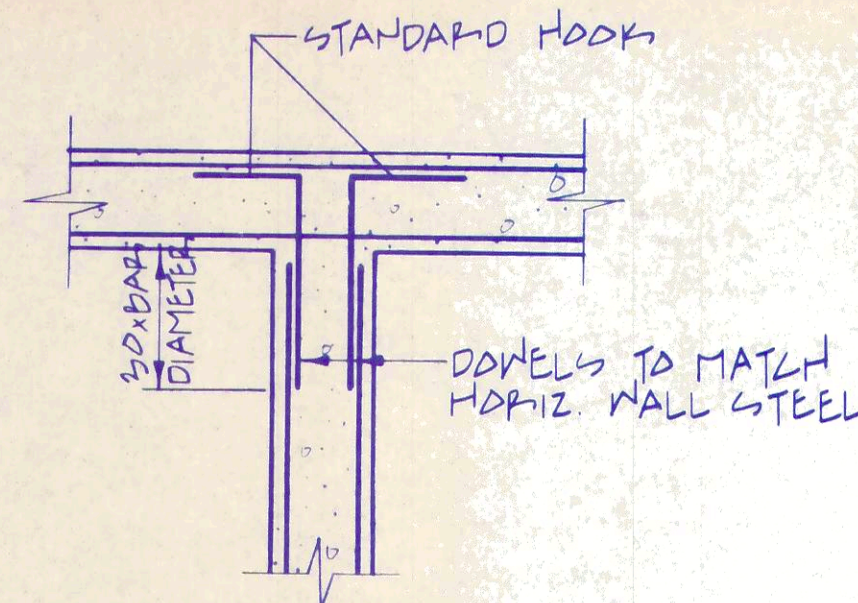
**WASTEWATER TREATMENT
PLANT IMPROVEMENTS
OAK HARBOR, OHIO**

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REVISION		

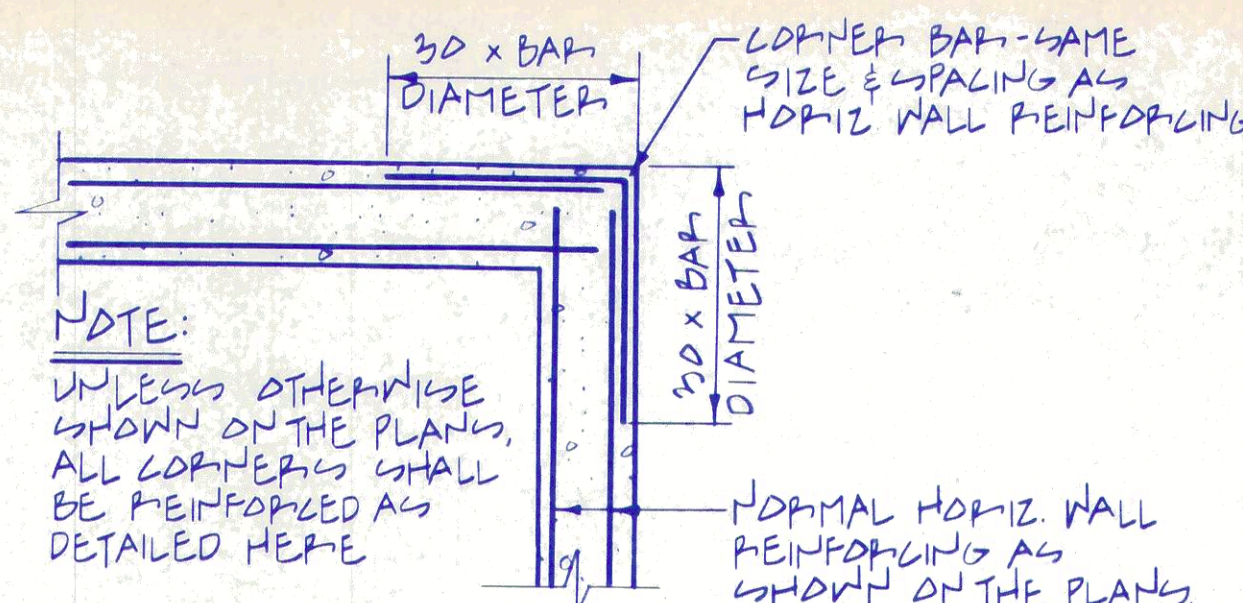
15
18
JOB NUMBER
1590-008



**SQUARE AND ROUND
OPENING DIAGONAL
REINFORCING DETAIL**

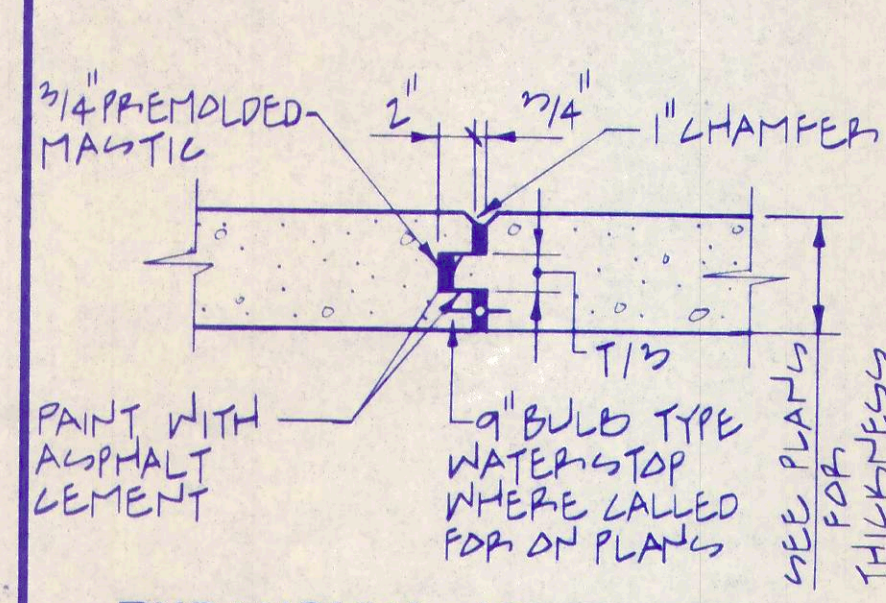


**INTERSECTING
WALL DETAIL**

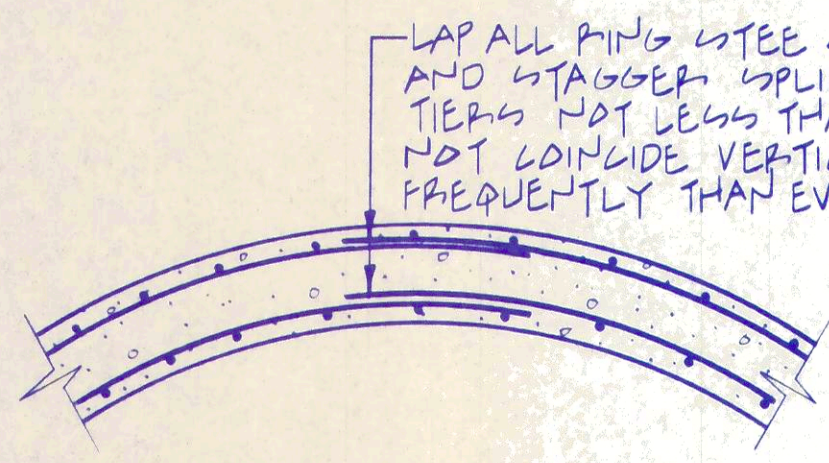


CORNER DETAIL

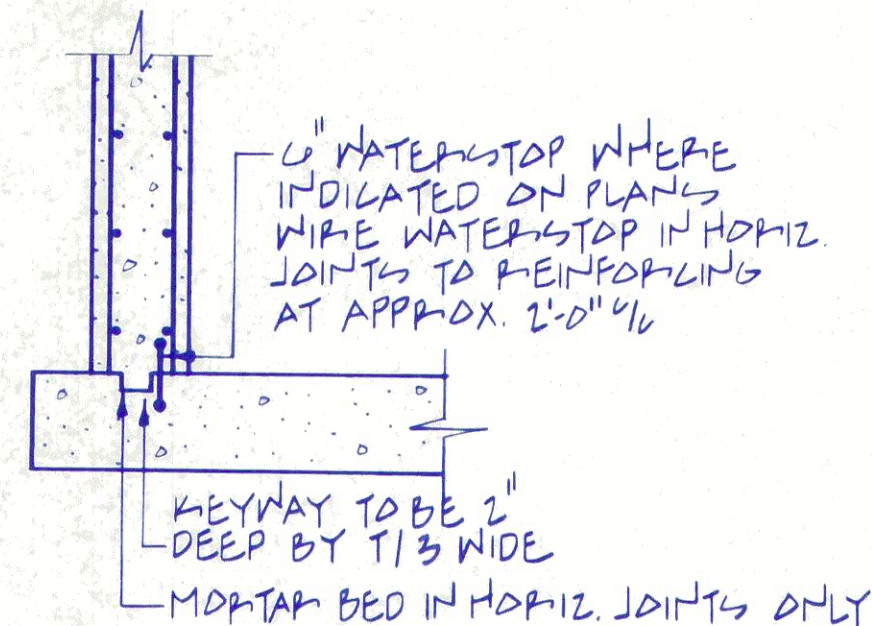
NOTE:
UNLESS OTHERWISE
SHOWN ON THE PLANS,
ALL CORNERS SHALL
BE REINFORCED AS
DETAILED HERE



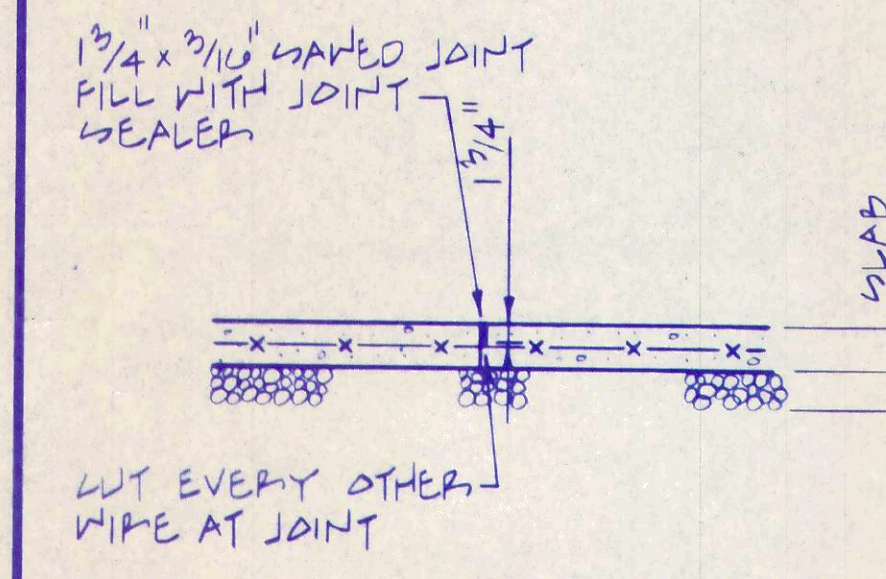
EXPANSION JOINT DETAIL



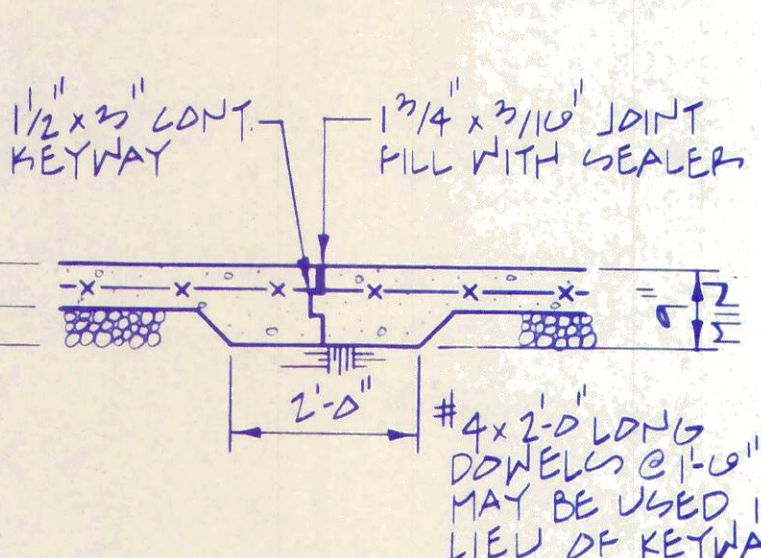
**CIRCULAR TANK RING
STEEL LAP DETAIL**



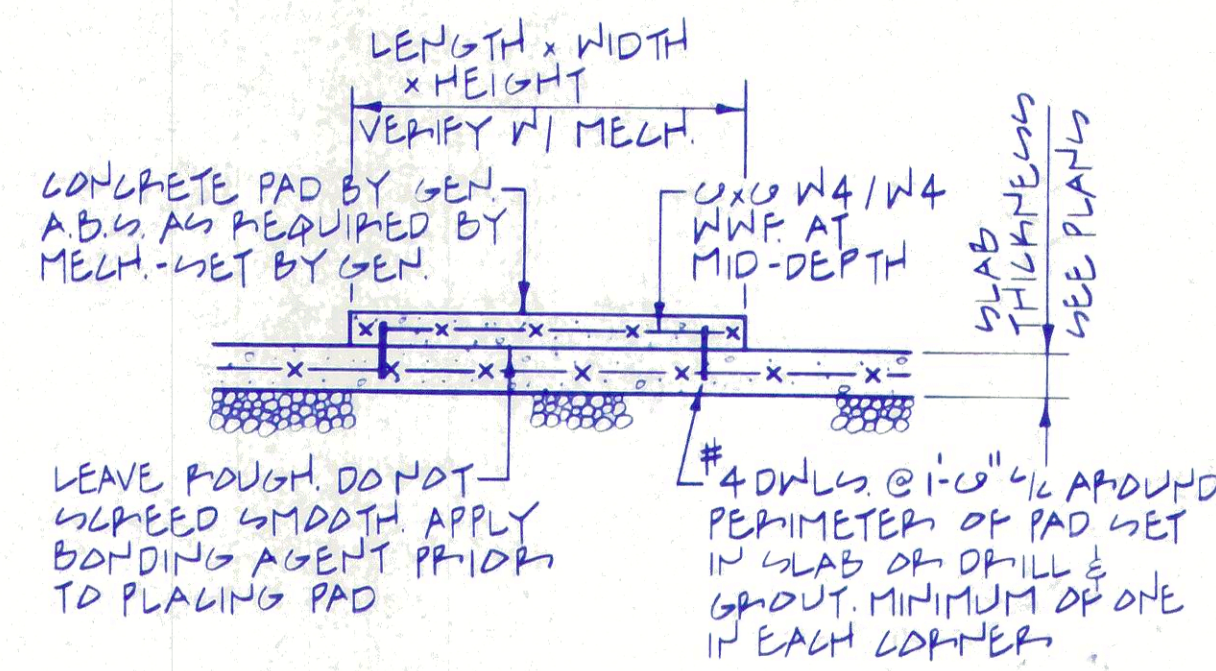
CONSTRUCTION JOINT DETAIL



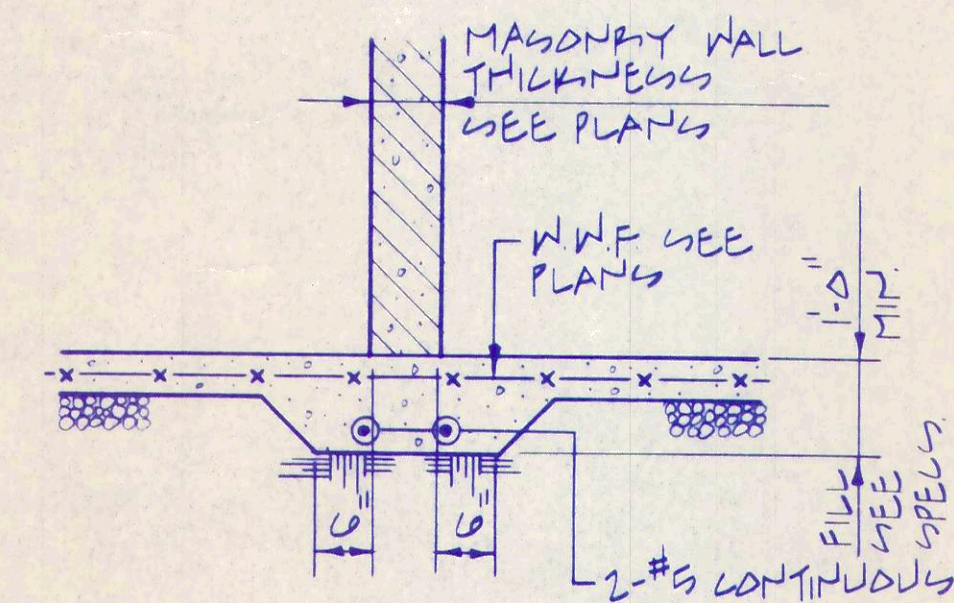
**TYPICAL CONTROL
JOINT DETAIL**



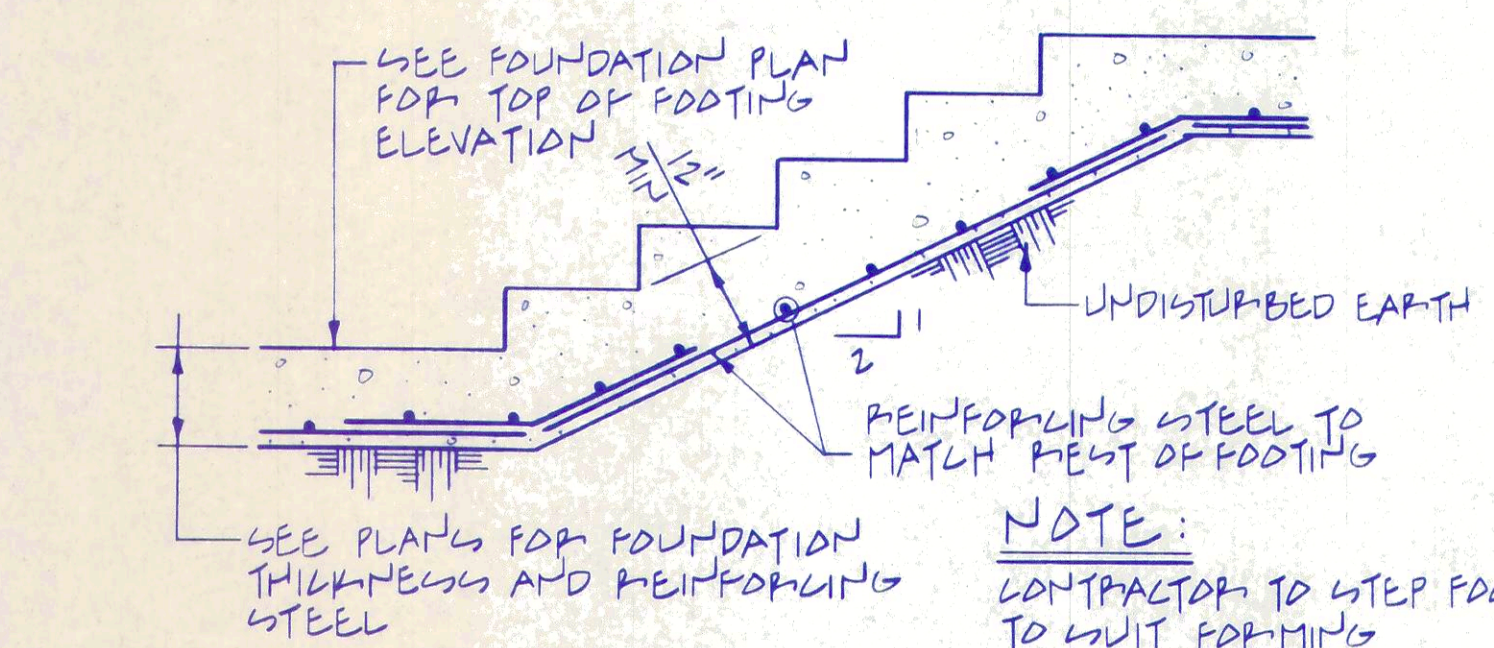
**TYPICAL CONSTRUCTION
JOINT DETAIL**



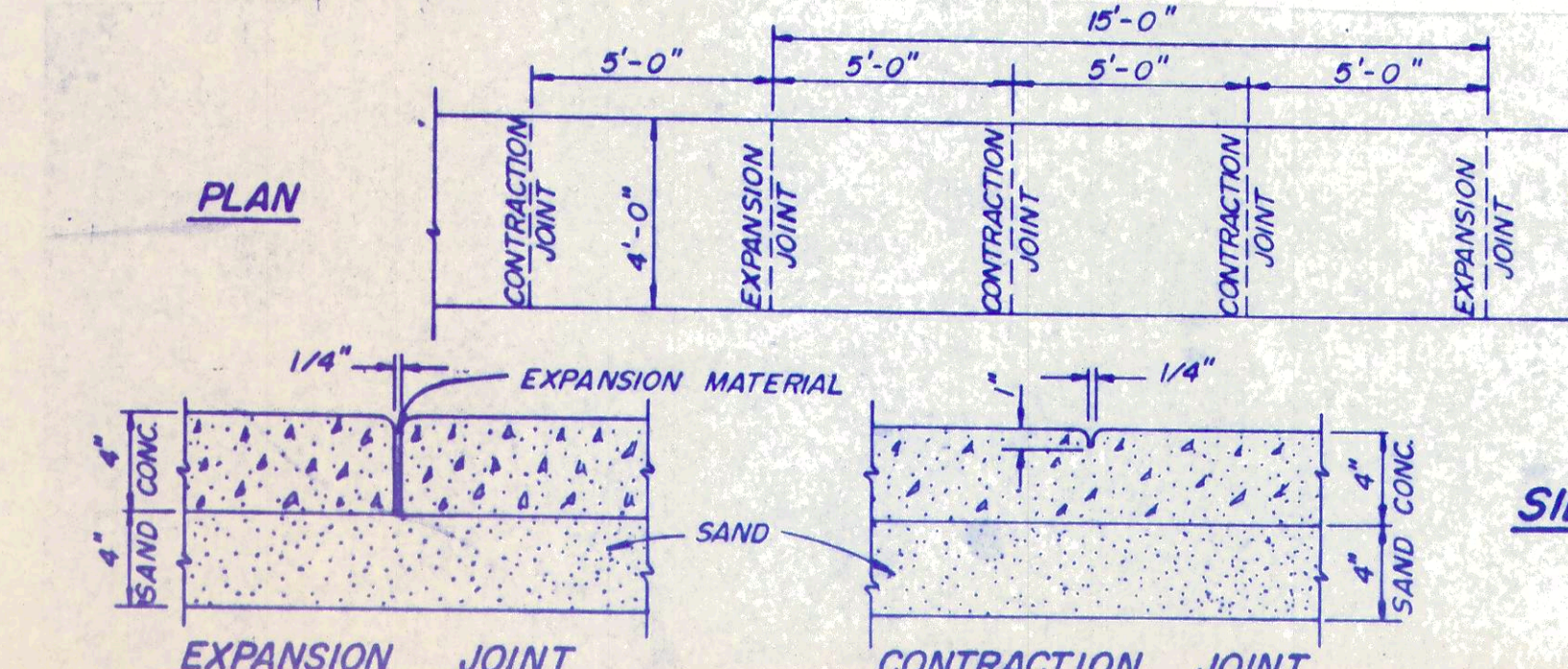
**TYPICAL CONCRETE MECHANICAL
EQUIPMENT PADS**



**TYPICAL THICKENED SLAB
UNDER NON-BEARING
MASONRY PARTITIONS**



STEPPED FOOTING DETAIL



SIDEWALK DETAILS

NOTE:
THE COST OF THE SAND
SHALL BE INCLUDED IN
THE UNIT PRICE BID FOR
ITEM 608-4\"/>

GENERAL NOTES

Unless otherwise shown or noted on the drawings or in the specifications, the following notes shall apply.

STRUCTURAL STEEL

- Steel shall be ASTM A-36 designed, detailed, fabricated and erected in accordance with the latest AISC specifications.
- All structural steel shall have one shop coat of approved priming paint. Parts inaccessible after erection shall have two coats.
- Connections shall be shop welded and field bolted unless otherwise shown.
- Connections shall develop the full strength of the member as determined by the load tables in the AISC manual.
- All bolts shall be 3/4" diameter, A325-F, with a minimum of 2 bolts per connection.
- All welding shall be in accordance with the latest AISC and AWS specifications using E70 electrodes.
- Base plates shall be welded to columns.
- All columns shall have 1" grout between the base plate and concrete.
- Anchor bolts shall be 3/4" diameter by 2'-6" long minimum.

MISCELLANEOUS METALS

- Provide angle lintels over all masonry openings and recesses as required. Lintels not scheduled on drawings shall consist of a single angle with 3/4" leg horizontal for each four inches of wall thickness. Angles shall be as follows:

Masonry Opening	Angle Size	Bearing Each End
4'-0" or less	3 1/2 x 3 1/2 x 5/16	4"
4'-0" to 6'-0"	4 x 3 1/2 x 5/16	6"
6'-0" to 8'-0"	5 x 3 1/2 x 5/16	8"
8'-0" to 10'-10"	6 x 3 1/2 x 5/16	8"

- Aluminum in contact with concrete or a dissimilar metal shall be coated with a bitumastic paint.

STEEL JOISTS

- Steel joists shall be designed, detailed, fabricated, and erected in accordance with the latest SJI specifications.
- All joists shall have standard bridging and wall anchors according to SJI specifications unless noted otherwise.
- Provide deep bearings and sloped bearings where called for on the drawings.

CONCRETE

- Concrete shall be designed, furnished and placed in accordance with the latest ACI specifications.
- Concrete shall be controlled stone or gravel concrete having a minimum 28 day compressive strength of 4,000 psi unless otherwise noted or specified.
- Reinforcing steel shall be ASTM A-615, Grade 60, designed, detailed, fabricated and erected according to the latest ACI and CRSI specifications.
- Hook all wall and wall footing rods 30 bar diameters around corners or provide corner bars.
- Lap all bars a minimum of 30 bar diameters, but not less than 12".
- All exposed corners of beams, columns and walls shall have a 1" nominal chamfer.
- Provide keyways 1 1/2" deep by 1/3 the width of the member (3 1/4" minimum) at all construction joints.
- Control joints shall be provided in floor slabs at 20' c/c maximum each way unless otherwise shown on the drawings.
- Minimum protection over reinforcing:

Inside Buildings	
Columns, Beams and Girders	1 - 1/2"
Slabs and Walls	3/4"
Contact with or over Water	
All Members	2"
Contact with Earth	
Formed Walls and Columns	2"
Walls, Columns, Slabs & Footers placed against earth	3"

MASONRY

- Masonry construction shall conform to the latest NCMA specifications pertinent to the particular type of construction or condition occurring.
- Concrete masonry units shall be ASTM C-90, Grade N, with a minimum compressive stress of 1,000 psi based upon gross area. Mortar shall be Type "M" or Type "S".

- Provide three courses (24") minimum solid bearing, built pyramid below all beam and joist bearings and lintels built in bearing walls. Provide 16" minimum depth of solid masonry bearing for all other lintels or concentrations.

- Masonry walls shall have truss design masonry wall reinforcement in every second horizontal joint (16 in. C.C.) and in each joint (8 in. C.C.) for two joints above and below all openings. Reinforcement shall be continuous with 6-in. laps minimum. Reinforcement at openings shall extend 2 ft. beyond each side of opening.

- Provide control joints in masonry walls at a maximum spacing of 40' c/c or as otherwise shown on the drawings.

CARPENTRY

- All wood construction shall conform to the latest edition of the National Design Specification for Wood Construction.
- Lumber and wood framing shall not have a moisture content greater than 19% by weight when placed into the construction.
- Lumber used for framing shall be Douglas Fir, Southern Pine, or Western Hemlock, No. 2 grade or better, with a stress graded for not less than 1200 psi in flexure.
- Provide wood framing for walls, trusses, and other constructions, as shown and required to complete the Project.
 - Studs shall be of sizes shown, spaced as shown on the drawings, doubled around openings, and tripled at corners.
 - Provide plates top and bottom of stud walls with double top plates required. Splices in top plates shall be made over studs only and staggered.
- Truss end bearings, roof purlins, joists, and lintels shall be securely anchored to their supporting members using galvanized metal timber connectors in accordance with the accepted standard of the American Institute of Timber Construction.

WOOD ROOF TRUSSES

- Roof trusses shall be designed and fabricated in accordance with the latest Truss Plate Institute Specifications.
- Structural computations and details sealed by a Registered Professional Engineer shall be submitted for each truss configuration.
- Trusses shall be designed for ___ lbs. per square foot dead load plus ___ lbs. per square foot snow load, all on the top chord, and ___ lbs. per square foot dead load on the bottom chord, plus any special loading shown on the drawings. The snow load shall be increased as required by the applicable building code due to drifting or slideoff from a higher roof.
- Provide bracing as required for erection and as required for the design of the trusses as specified by the truss manufacturer. Provide a minimum continuous lateral bracing of 2" x 4" at 8'-0" c/c at the bottom chord along with any additional bracing shown on the drawings.
- All truss hangers shall be designed and supplied by the truss manufacturer.

FOUNDATIONS AND EARTHWORK

- Foundations shall bear on undisturbed soil, providing a safe bearing capacity of not less than 3,000 P.S.F. Material at foundation bearing elevations which does not conform to above requirements shall be brought to the A-E attention for determination.
- Fill and backfill under all building slabs, pavings, curbs, walks, etc. shall be made with coarse sand, gravel, or crushed stone, compacted to not less than 100% maximum dry density per ASTM D-698.
- Where walls have fill on each side, the fill shall be placed so that the height of fill on each side of the wall is approximately equal to maintain the stability and position of the wall.
- When foundation walls span from ground floor to first floor, both ground floor and first floor slab shall be in place before any backfill is placed against walls.

DESIGN LIVE LOADS

- METAL STAIRS:**
D.L. = 25 PSF
L.L. = 100 PSF
- ROOF**
TOP CHORD
SNOW = 25 PSF
WIND = 15 PSF
D.L. = 10 PSF
BOTTOM CHORD
D.L. = 10 PSF



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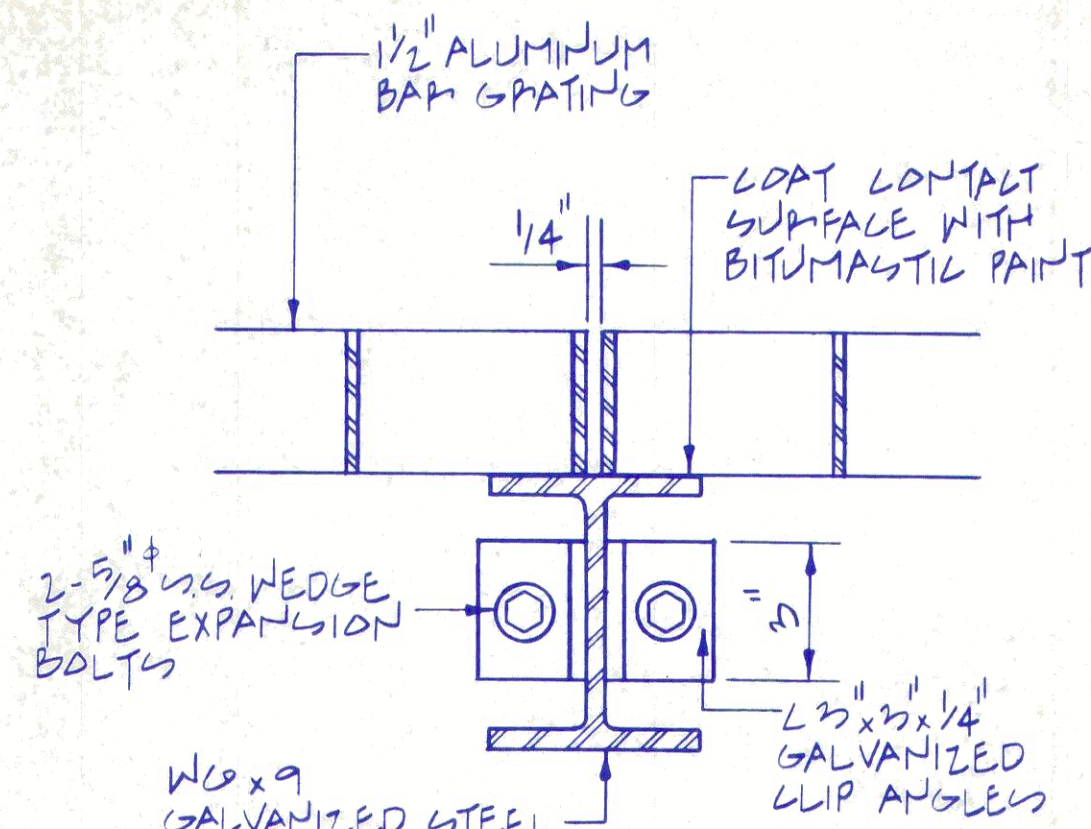
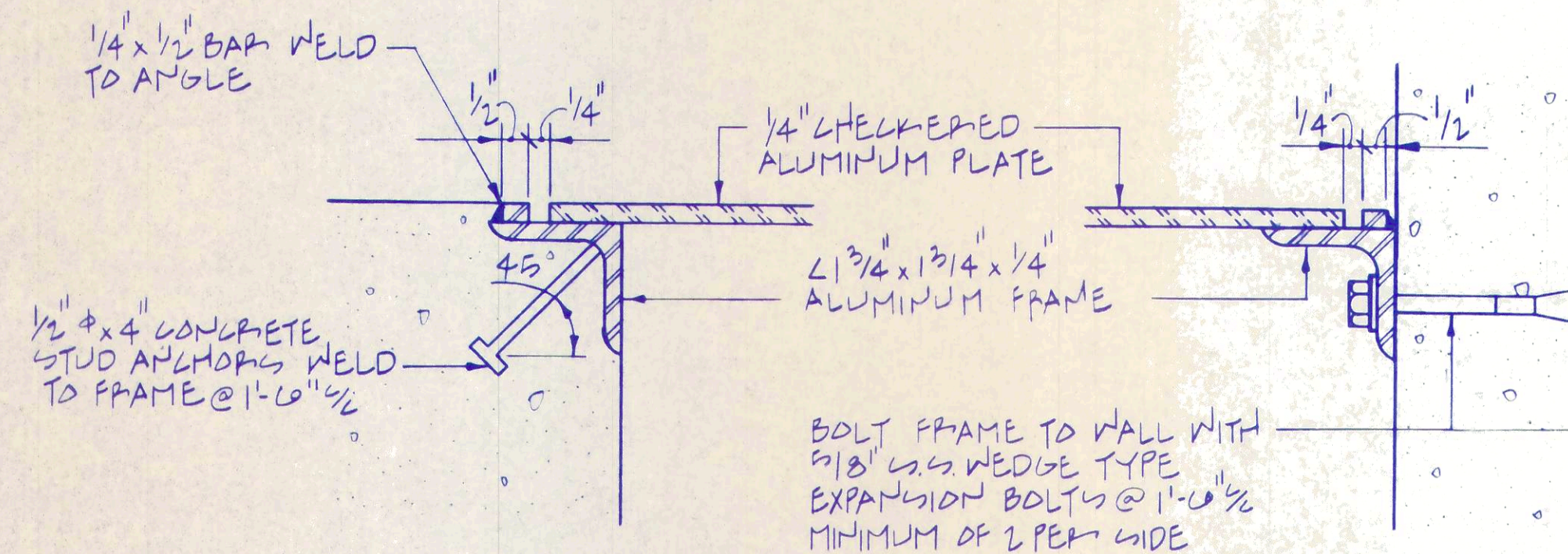
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PLANNERS
ARCHITECTS
ENGINEERS

**WASTEWATER TREATMENT
PLANT IMPROVEMENTS
OAK HARBOR, OHIO**

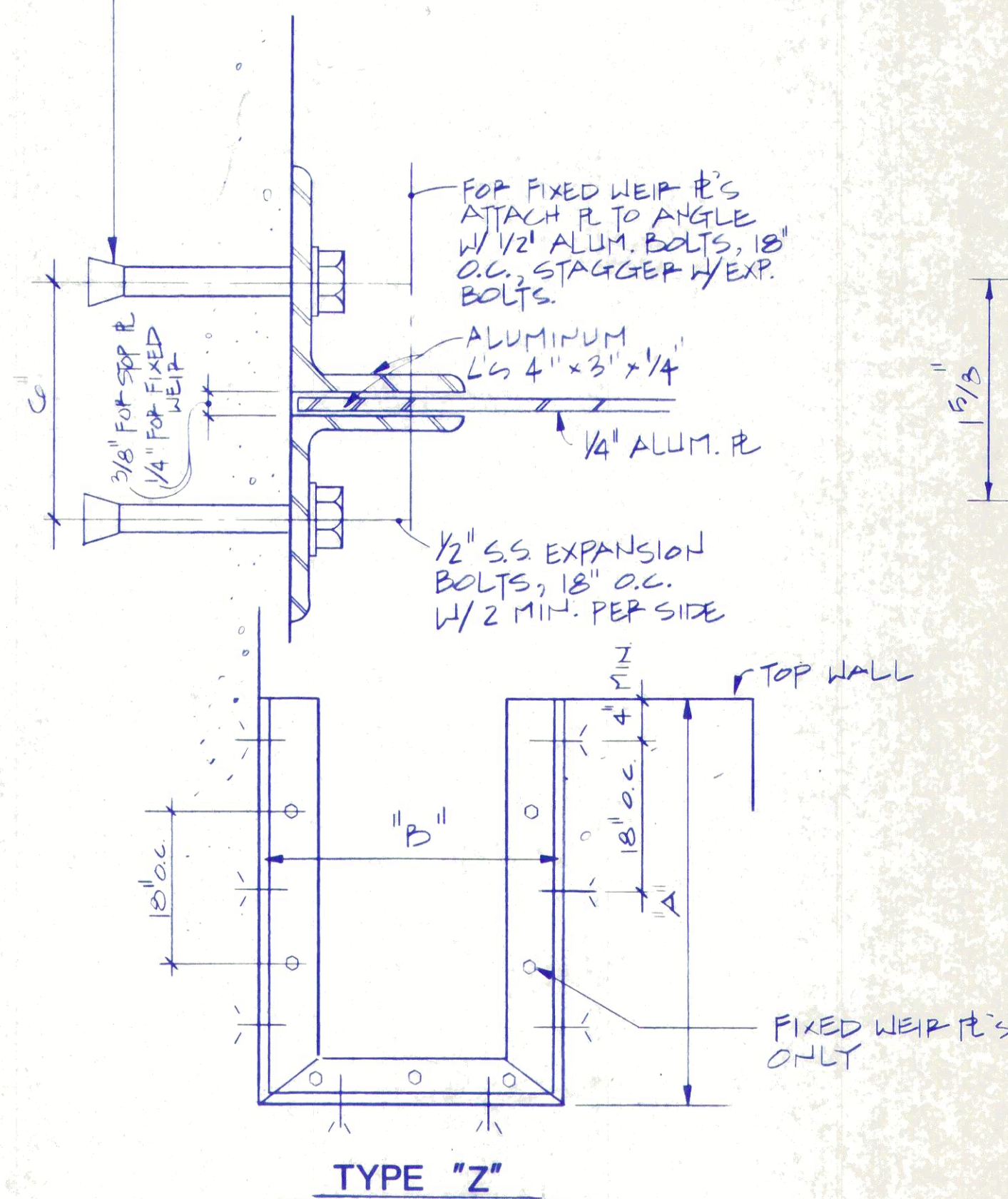
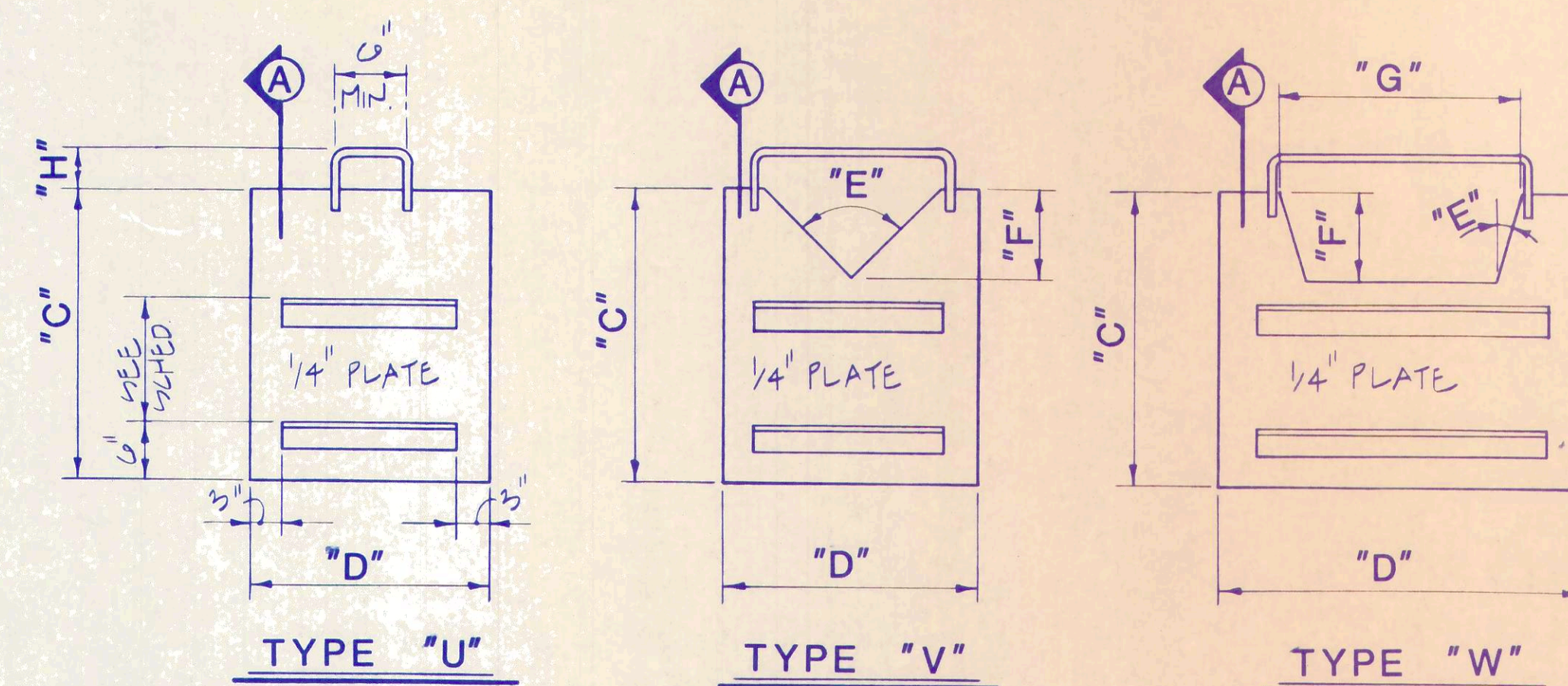
EXISTING DRAWING	PROPOSED DRAWING	REVISIONS
CHECKED BY	CHECKED BY	
APPROVED BY	APPROVED BY	

16
18
JOB NUMBER
1590-008

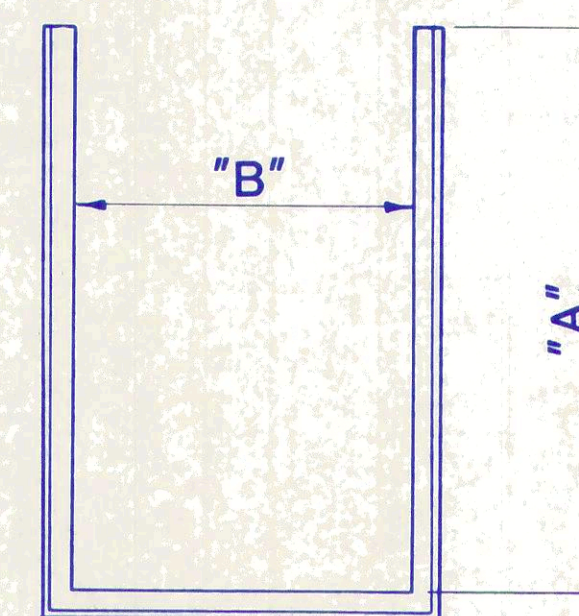
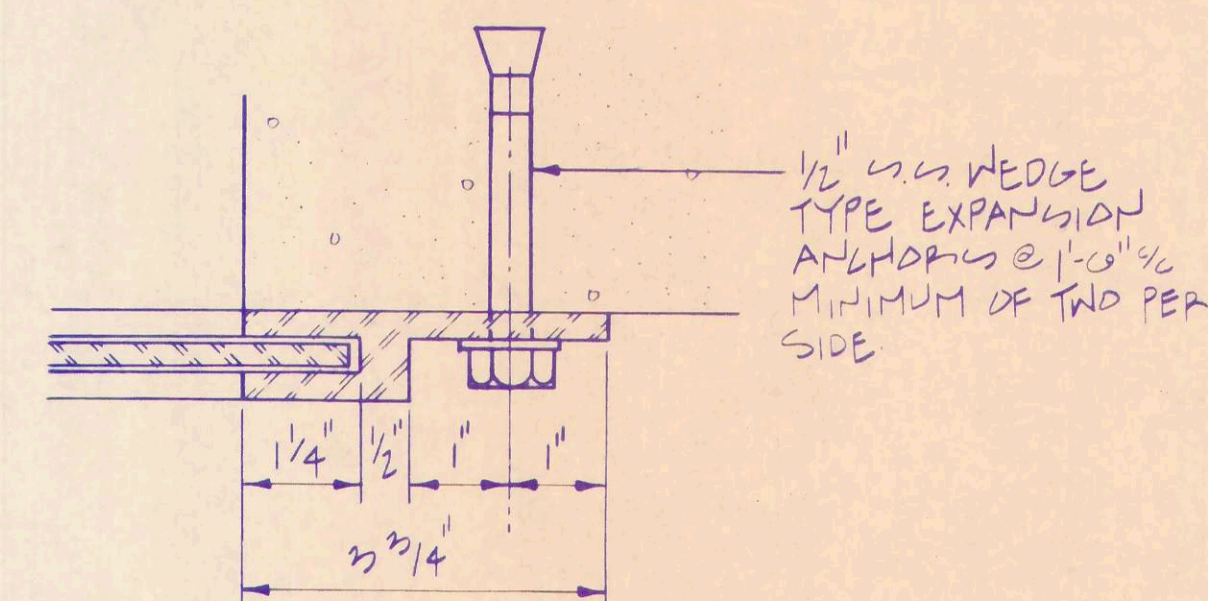
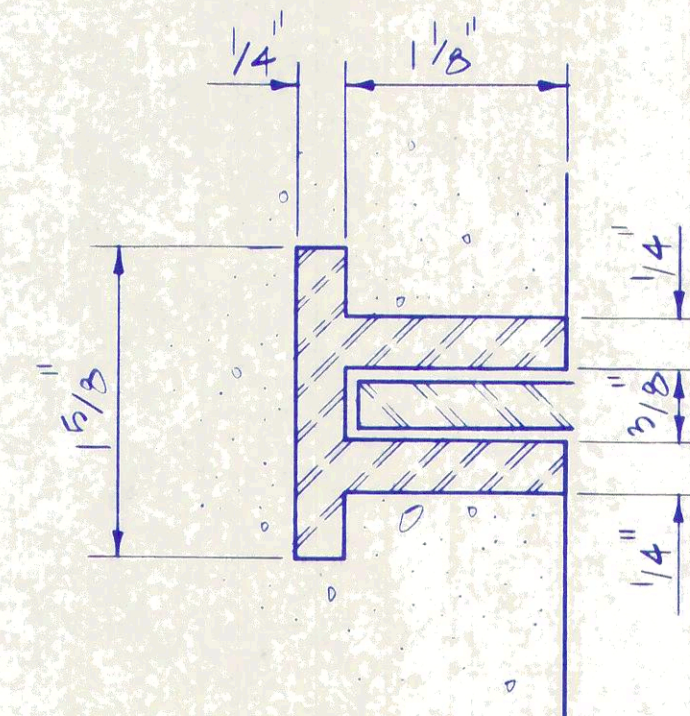
SEE PLANS FOR SIZE & SPACING OF STIFFENERS IF REQUIRED



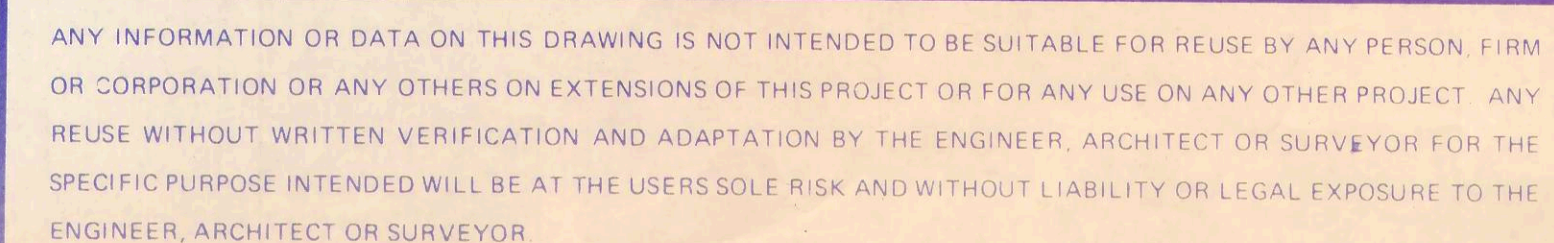
NOTE:
COAT ALUMINUM SURFACES IN CONTACT WITH CONCRETE OR A DISSIMILAR METAL WITH BITUMASTIC PAINT

[illegible]

* TOP OF HANDLE TO BE $\frac{1}{2}$ " BELOW
BOTTOM OF REMOVABLE
GRATING SECTION.



A diagram of a rectangular frame. The vertical dimension is labeled "A" and the horizontal dimension is labeled "B". The frame is composed of two parallel lines, with small circles at the corners and midpoints of the sides.



GRILLE, REGISTER & DIFFUSER SCHEDULE				
MARK	A	B	C	D
TYPE	CEILING SUPPLY	CEILING SUPPLY	CEILING RETURN	SIDEWALL SUPPLY
STYLE	ADJ. LOUVER	ADJ. LOUVER	EGGCRATE	ADJ. LOUVER
DEFLECTION	4-WAY	2-WAY OPPOSITE	N/A	DBL. DEFLECTION
DAMPER	O.B.D.	O.B.D.	NO	FACE OPERATED
FINISH	OFF-WHITE	OFF-WHITE	NO	OFF-WHITE
MANUFACTURER	TITUS	TITUS	TITUS	TITUS
MODEL	250	250-S2	50F	272RS
REMARKS	-SURFACE FLANGE	-SURFACE FLANGE	-SURFACE FLANGE	-DUCT MOUNTED

FAN SCHEDULE	
MARK	EF-1
LOCATION	106
AIR FLOW CFM	365
● EXT. STATIC PRESS.	.250
MOTOR WATTS/HP	130
ELECTRICAL CHAR.	115-1-60
DRIVE	DIRECT
FAN RPM	1050
BACKDRAFT DAMPER	INTREGAL
MAX. (SONES)	4.0
FAN TYPE	CEILING
WEIGHT (LBS)	36
MANUFACTURER	PENN
MODEL	Z10
REMARKS	-AIRMINDER SWITCH -SL20 ROOF CAP

FURNACE SCHEDULE	
MARK	F-1
LOCATION	MECH. RM
MANUFACTURER	TRANE XL80
STYLE	UP-FLOW
FURNACE-MODEL	BLU070J936A
HEAT-INPUT (BTUH)	70,000
-OUTPUT (BTUH)	57,000
BLOWER-HP	1/3
-VOLTAGE	115-1-60
-CFM (TOTAL)	1200
-CFM (OSA)	50
-ESP (INCHES)	.3
WEIGHT (LBS)	150
A/C COIL	
-BTUH	26,00
-E.A.T. (°F)	77 db/65 wb
CONDENSING UNIT	CU-1
MODEL	TTD730B100A
VOLTAGE	230-1-60
MIN. BR CIR AMPACITY	25
OUTDOOR db (°F)	95
EER	9.2
WEIGHT (LBS)	160
REMARKS	-PROGRAMMABLE WALL T-STAT -REFRIGERANT LINE SETS -LOW AMBIENT -TYPE "A" COOLING COIL ENCLOSURE

ENERGY CODE COMPLIANCE SCHEDULE	
LOCATION: OAK HARBOR, OHIO	DEGREE DAYS: 6494
NORTH LATITUDE: 42°	
DESIGN CONDITIONS:	SUMMER: 88 °F db 75 °F wb WINTER: 1 °F db
BUILDING ENVELOPE TO COMPLY WITH CODE:	
WALLS	1258 sq. ft. gross area X .265 Uo= 333 BTU/Deg.
ROOF	1010 sq. ft. gross area X .072 Uo= 73 BTU/Deg.
	406 BTU/Deg.
BUILDING ENVELOPE AS DESIGNED	
WALL-A	1161 sq. ft. net aera X .16 U= 186 BTU/Deg.
DOOR-A	30 sq. ft. net aera X .42 U= 13 BTU/Deg.
GLASS-A	55 sq. ft. net aera X .65 U= 36 BTU/Deg.
GLASS-B	12 sq. ft. net aera X 1.13 U= 14 BTU/Deg.
ROOF-A	1010 sq. ft. net aera X .05 U= 51 BTU/Deg.
	300 BTU/Deg.
BUILDING ENVELOPE AS DESIGNED IS: 300 BTU/Deg. WHICH IS LESS THAN 406 BTU/Deg. AS ALLOWED BY CODE.	
INFILTRATION:	AS DESIGNED: ALLOWED:
DOOR-A	5.4 CFM/Ft. 11.0 CFM/Ft.
GLASS-A	.35 CFM/Ft. 0.5 CFM/Ft.
OTTV WALLS	AS DESIGNED: 11.7 MAXIMUM ALLOWED: 33.8
OTTV ROOF	AS DESIGNED: 2.2 MAXIMUM ALLOWED: 8.5
EER	AS DESIGNED: 9.2 MINIMUM ALLOWED: 7.8

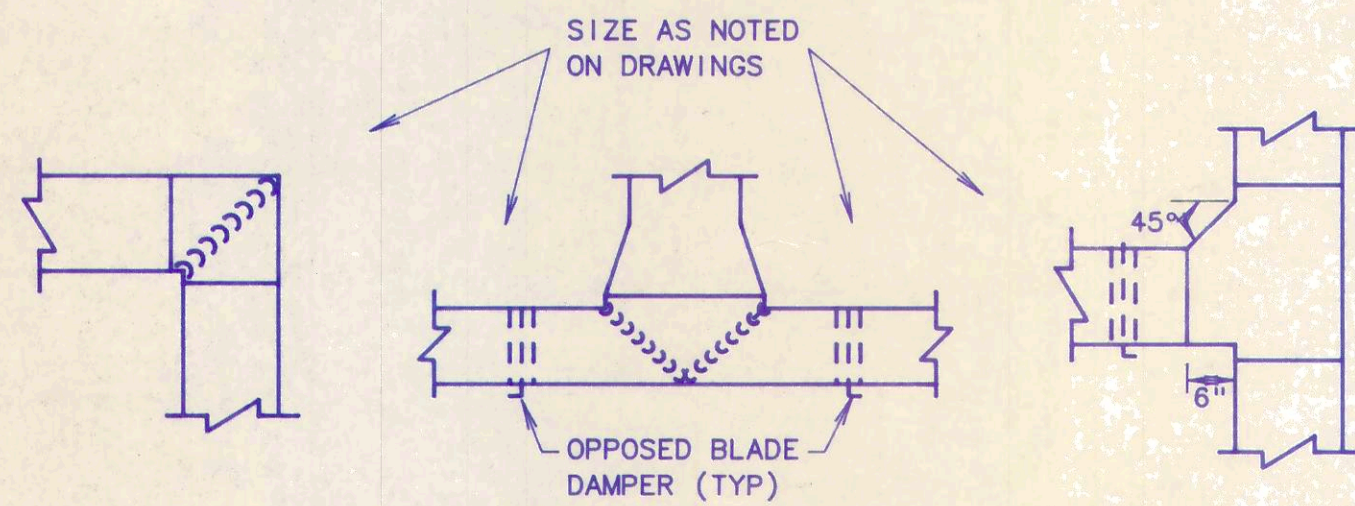
H V A C LEGEND	
F-1	FURNACE
CU-1	CONDENSING UNIT
EF-1	EXHAUST FAN
	SUPPLY DUCT
	RETURN DUCT
	TURNING VANES
	MANUAL BALANCING DAMPER
	MOTORIZED DAMPER
	FLEX CONNECTION
	DUCT TAKE OFF
	THERMOSTAT
A-100	GRILLE, REGISTER OR DIFFUSER
10X10	WITH CFM AND SIZE

GENERAL NOTES - HVAC

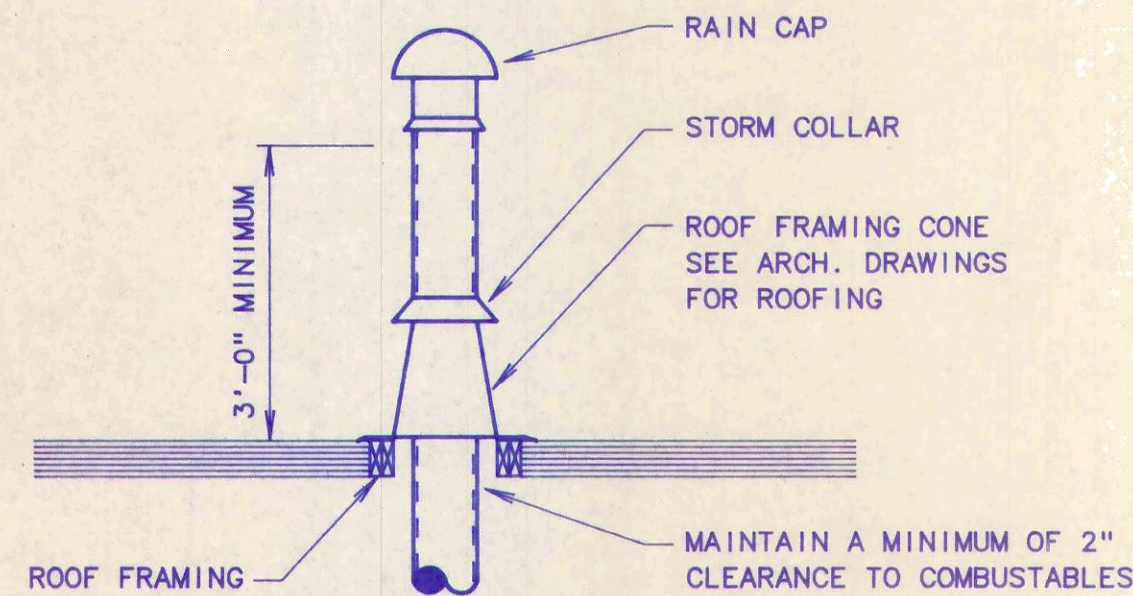
- ALL SUPPLY AND RETURN AIR DUCTS SHALL HAVE ONE INCH THICK DUCT LINER. DUCT DIMENSIONS SHOWN ARE NET FREE AREA REQUIRED. INCREASE DUCT DIMENSIONS BY TWO INCHES FOR WIDTH AND HEIGHT. DUCTS IN ATTIC TO HAVE AN ADDITIONAL TWO INCHES OF EXTERNAL DUCT WRAP.
- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL HOUSEKEEPING PADS FOR ALL EQUIPMENT SET ON THE FLOOR OR ON GRADE UNLESS OTHERWISE NOTED TO BE BY THE GENERAL CONTRATOR.
- ALL PIPES PASSING THRU WALLS AND FLOORS SHALL HAVE PIPE SLEEVES. IN MECHANICAL EQUIPMENT ROOMS, ETC. AND AREAS WHERE THERE ARE FLOOR DRAINS, THE MECHANICAL CONTRACTOR SHALL INSTALL A 3 INCH THICK CONCRETE CURB ENCASING THE SLEEVES AT THE FLOOR.
- ALL DUCT JOINTS AND SEAMS (LONGITUDINAL AND TRANSVERSE) SHALL BE SEALED WITH DUCT SEALANT. SEE SPECIFICATIONS.
- ALL CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, ETC. IS TO BE COMPLETED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
- ALL SQUARE ELBOW DUCT TURNS SHALL BE EQUIPPED WITH TURNING VANES. VANES SHALL BE DUAL BLADE TYPE.

REFERENCE NOTES (SHEET M-1)

- SUPPLY AND RETURN AIR DUCT TO HAVE FLEXIBLE CONNECTION AT F-1. PIPE CONDENSATE TO FLOOR DRAIN.
- CONNECT 3" DIA. WATER HEATER AND 3" DIA. FURNACE FLUES TO A COMMON 5" DIA. FLUE THRU ROOF. SEE FLUE THRU ROOF DETAIL.
- 24X8 WALL LOUVER TO BE EQUIVALENT TO "CONSTRUCTION SPECIALTIES INC." STANDARD BLOCK VENT 33EX W/ 90 SQ.IN. FREE AREA. USE AS COMMON COMBUSTION AND OUTSIDE AIR LOUVER. INSTALL APPROX. 7 FT. ABOVE GRADE. SEE DETAIL.

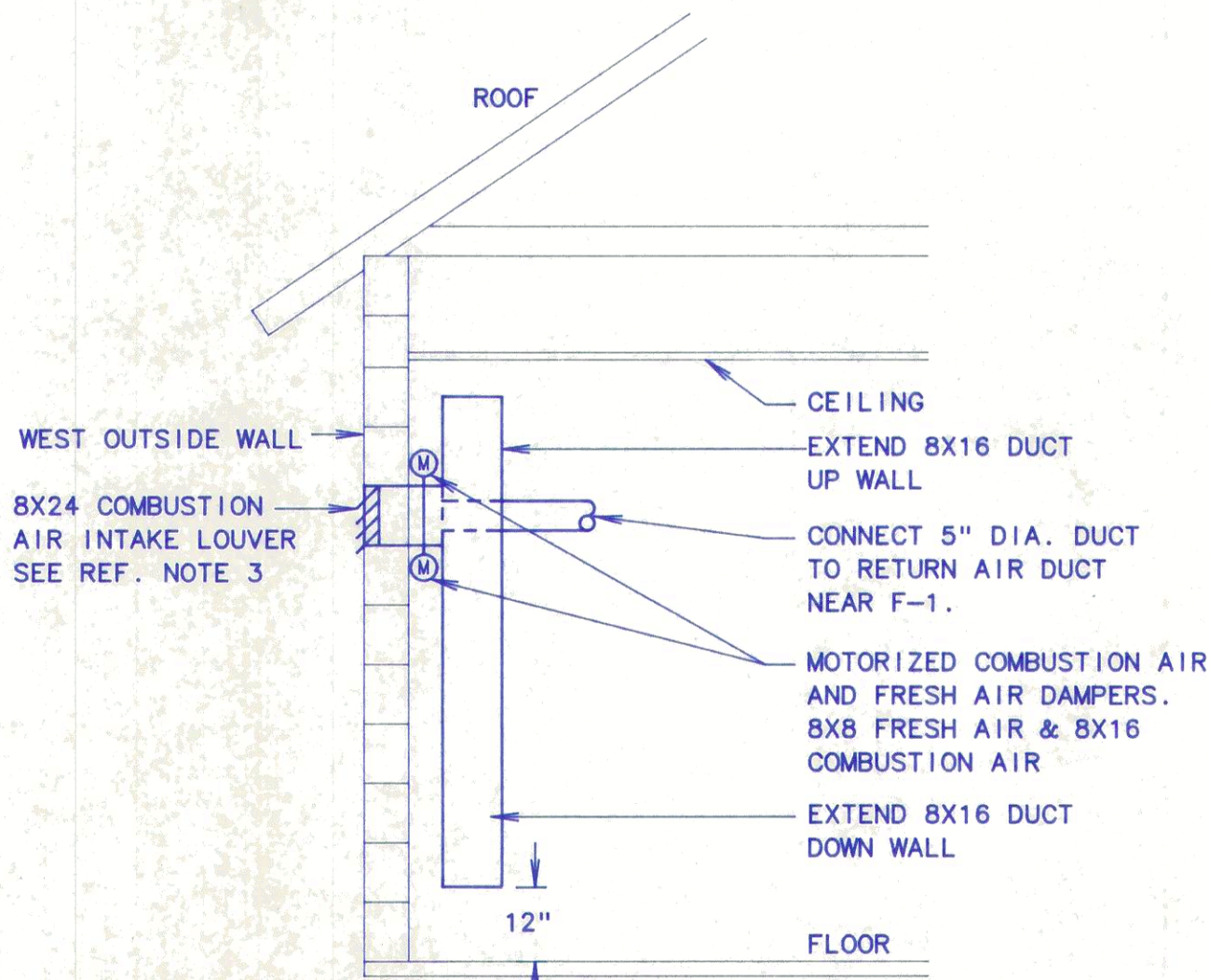


DUCT TRANSITION DETAILS
NO SCALE

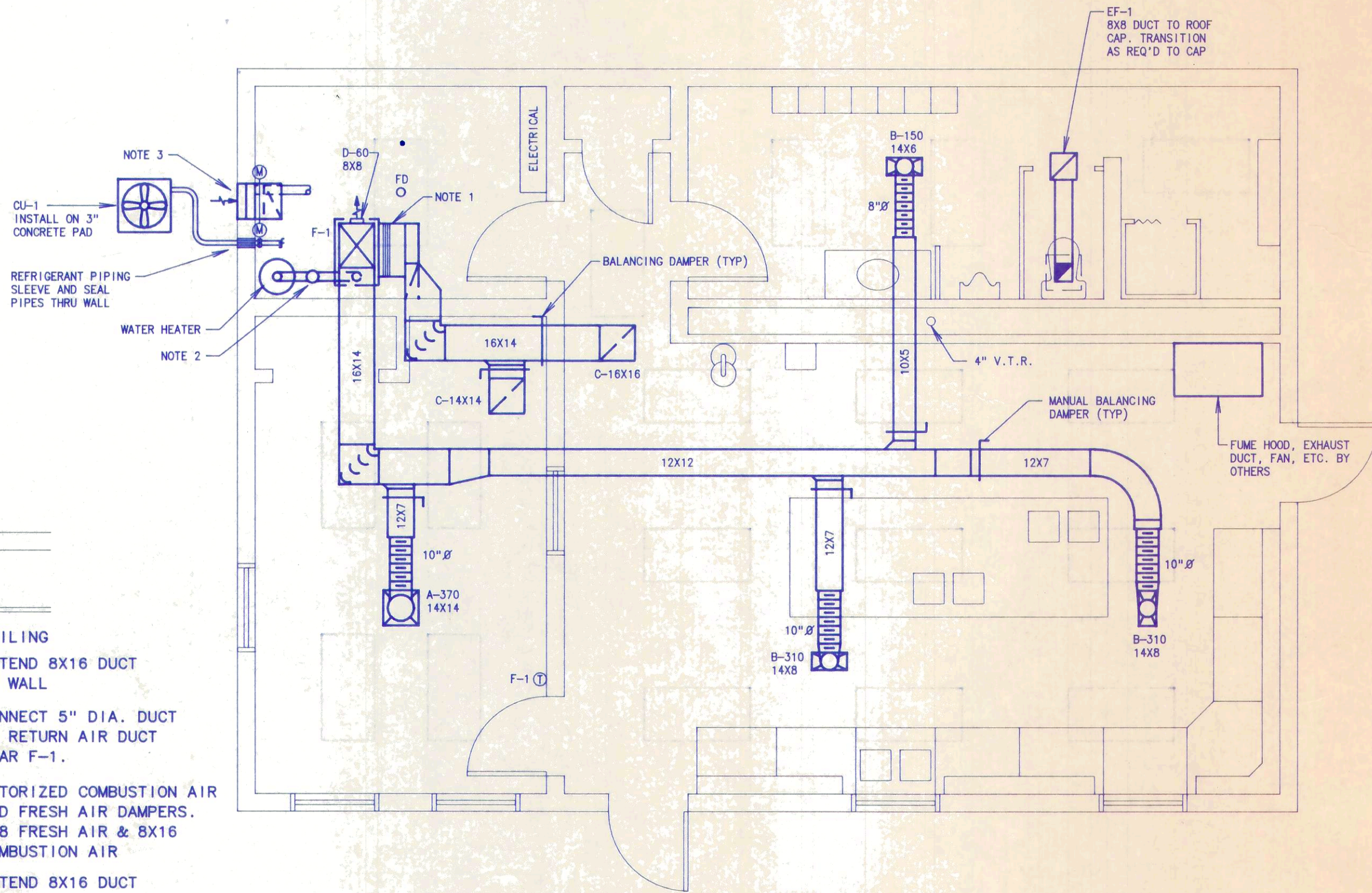


TYPE "B" FLUE THRU-ROOF DETAIL
NO SCALE

NOTE: DOUBLE WALL FLUE STACK EQUAL TO METALBESTOS MODEL RV. OR EQUAL TYPE "B" INSTALLATION

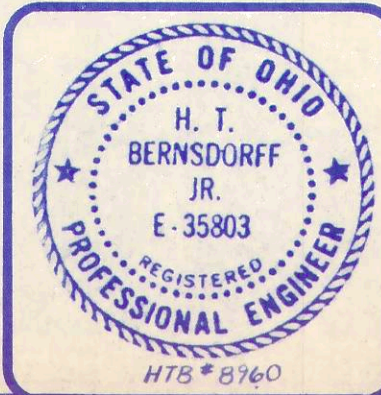


COMBUSTION AIR INTAKE
LOUVER DETAIL
NO SCALE



FLOOR PLAN

SCALE: 1/4" = 1'-0"



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HVAC PLAN & DETAILS

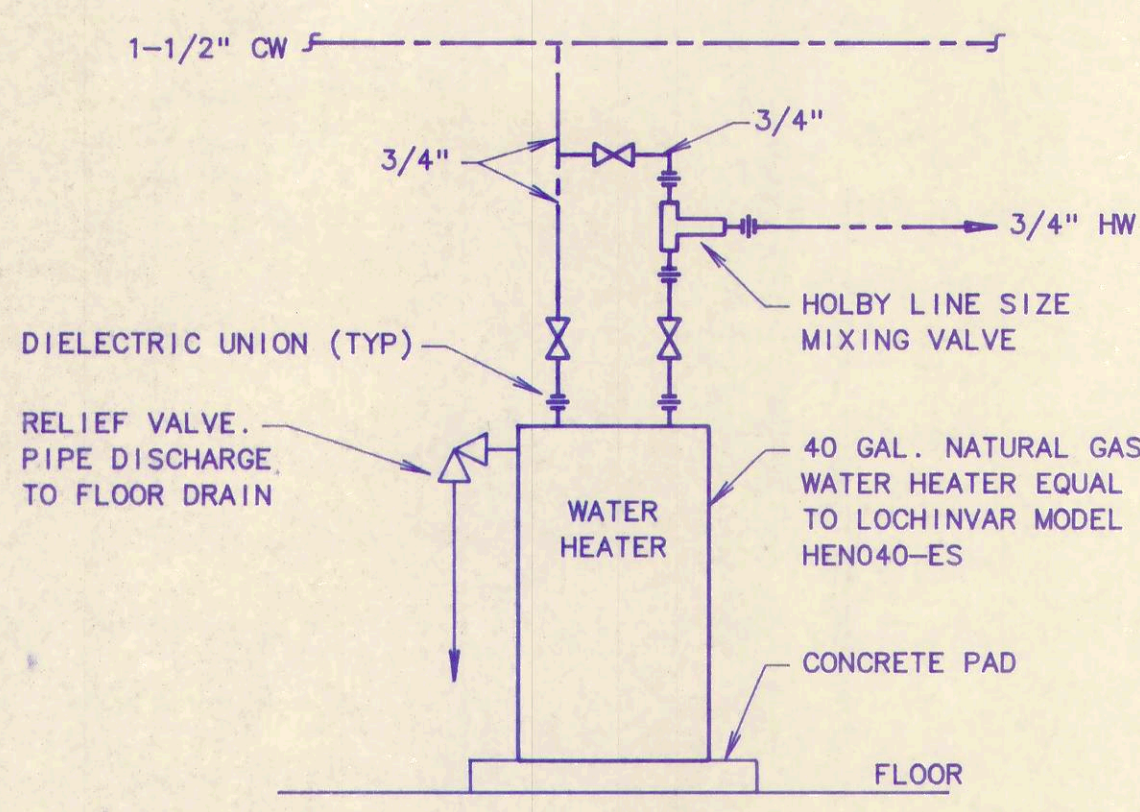


POGGE MEYER DESIGN GROUP, INC.
PLANNERS
ENGINEERS
ARCHITECTS
121 E. WOOSTER STREET
BOWLING GREEN, OHIO 43402

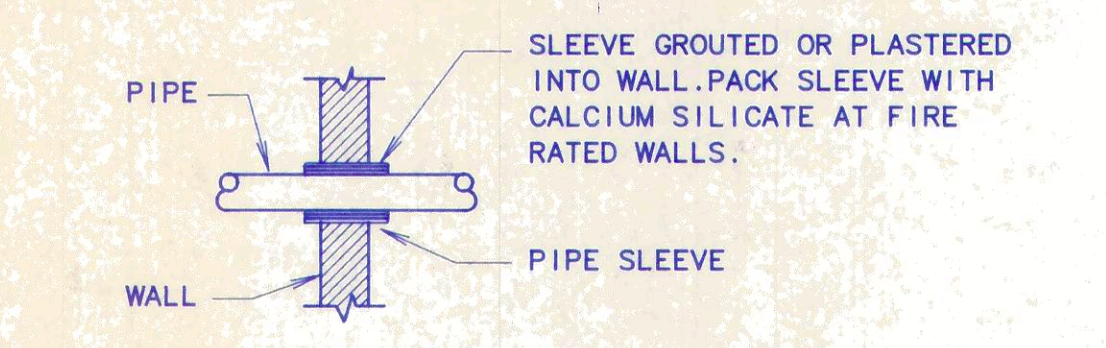
**WASTEWATER TREATMENT
PLANT IMPROVEMENTS
OAK HARBOR, OHIO**

DRAWN BY	CHECKED BY	DATE
REVISION		

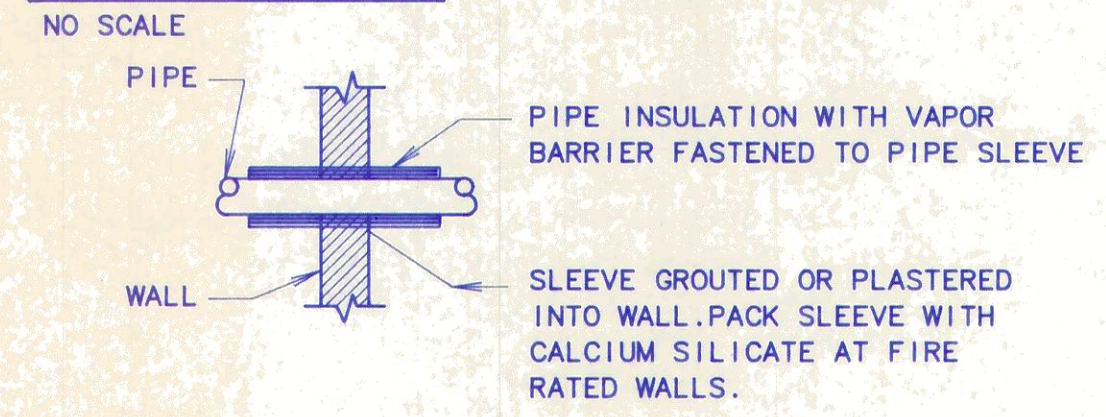
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JOB NUMBER
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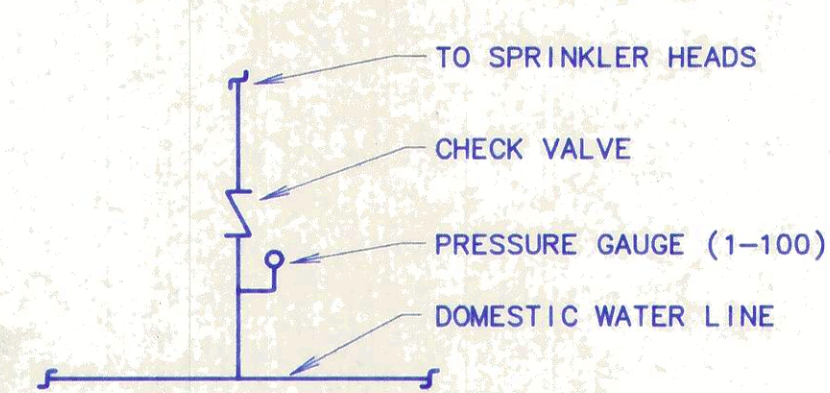
WATER HEATER PIPING DIAGRAM
NO SCALE



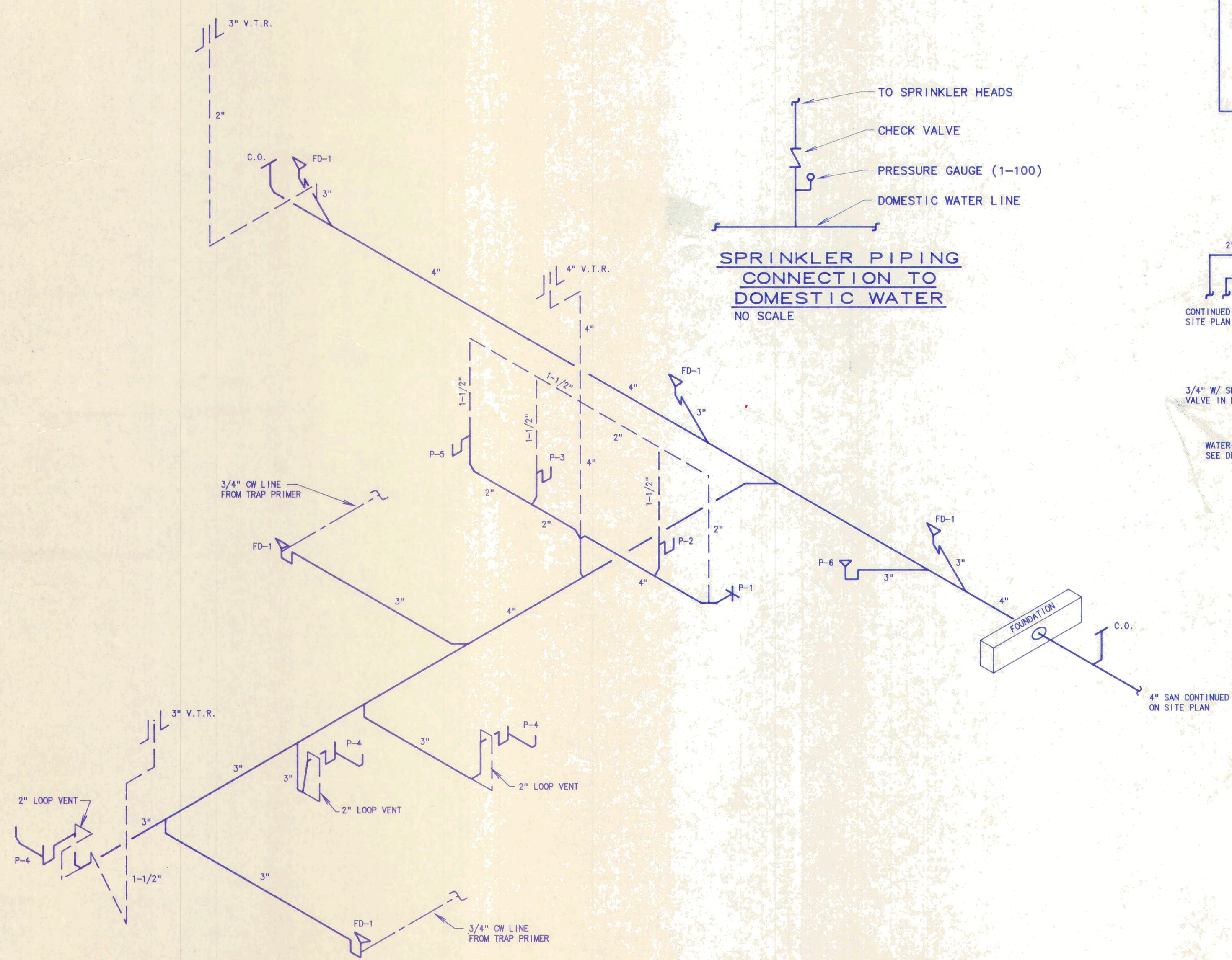
UN-INSULATED PIPE THRU
WALL DETAIL
NO SCALE



INSULATED PIPE THRU
WALL DETAIL
NO SCALE



SPRINKLER PIPING
CONNECTION TO
DOMESTIC WATER
NO SCALE



SANITARY ISOMETRIC
NO SCALE

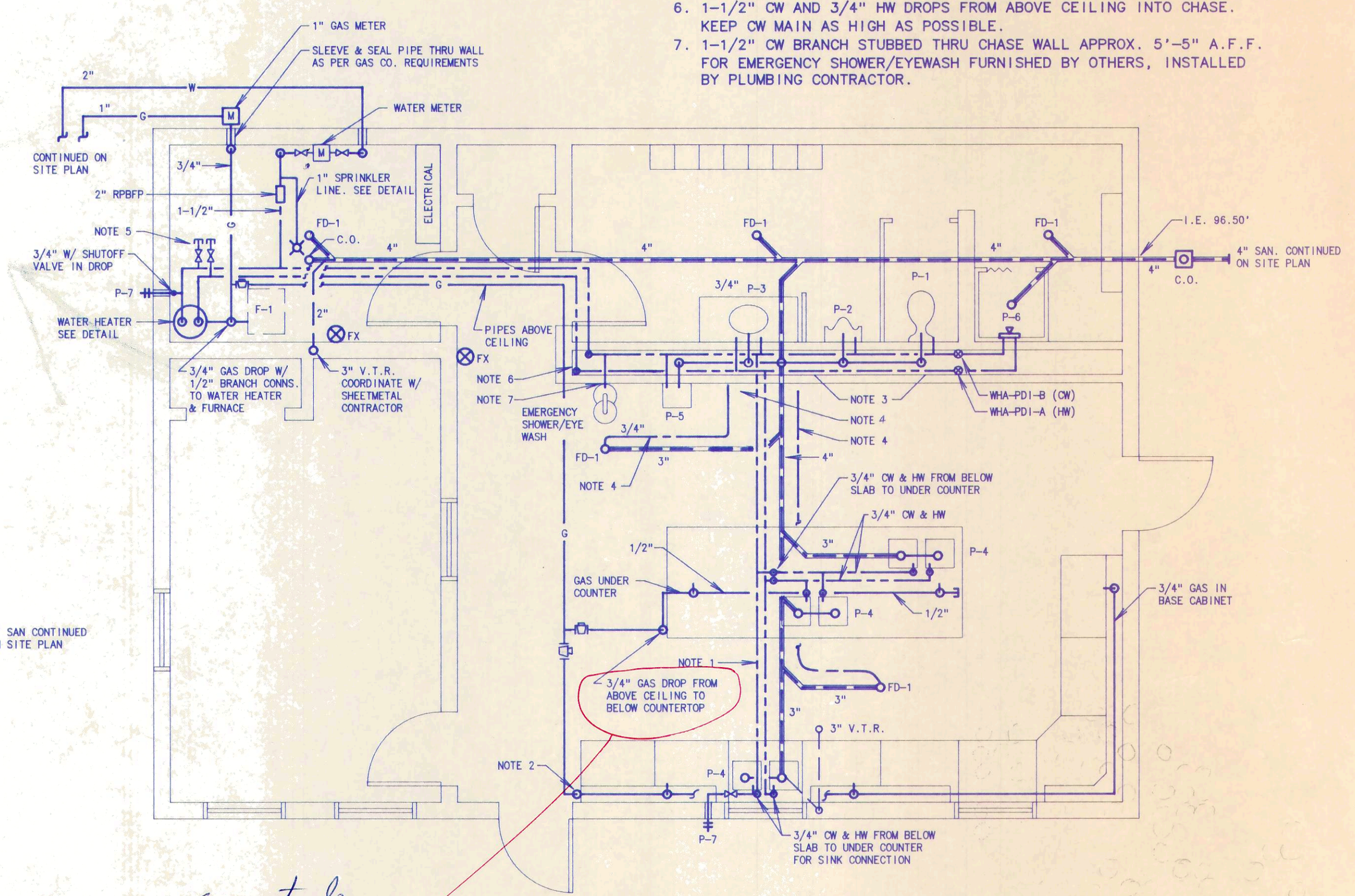


- GENERAL NOTES - PLUMBING
1. FOR CLEANOUT COVER TYPES FOR VARIOUS FLOOR FINISHES, REFER TO SPECIFICATIONS.
 2. THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL HOUSEKEEPING PADS FOR ALL EQUIPMENT SET ON THE FLOOR OR ON GRADE UNLESS OTHERWISE NOTED TO BE BY THE GENERAL CONTRACTOR.
 3. ALL PIPES PASSING THRU WALLS AND FLOORS SHALL HAVE PIPE SLEEVES. IN MECHANICAL EQUIPMENT ROOMS, ETC. AND AREAS WHERE THERE ARE FLOOR DRAINS, THE PLUMBING CONTRACTOR SHALL INSTALL A 3 INCH THICK CONCRETE CURB ENCASING THE SLEEVES AT THE FLOOR.
 4. CONNECT GAS LINES TO GAS FIRED EQUIPMENT WITH GAS COCK VALVE, DIRT LEG AND UNION.

PLUMBING FIXTURE SCHEDULE	
P-1	WATER CLOSET-WALL HUNG-FLUSH VALVE
P-2	URINAL-WALL HUNG
P-3	LAVATORY-COUNTERTOP
P-4	SINK-DOUBLE BOWL-COUNTERTOP
P-5	ELECTRIC WATER COOLER-WALL MOUNTED
P-6	SHOWER STALL & FIXTURES
P-7	FREEZEPROOF HOSE BIBB
FD-1	FLOOR DRAIN

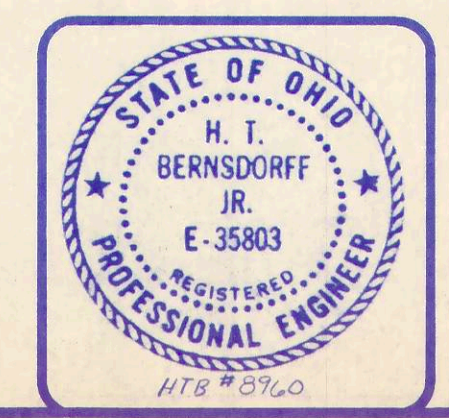
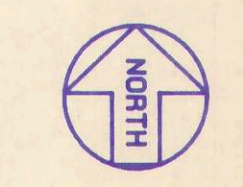
PLUMBING LEGEND	
	SANITARY BELOW FLOOR VENT
	COLD WATER (CW)
	HOT WATER (HW)
	NATURAL GAS
	WATER HAMMER ARRESTOR (WHA)
	SHUTOFF VALVE
	CHECK VALVE
	UNION
	SPRINKLER HEAD
	GAS COCK VALVE
	VENT THRU ROOF
	CLEAN OUT
	PLUMBING FIXTURES-SEE SPECS
	FLOOR DRAIN
	FIRE EXTINGUISHER

- REFERENCE NOTES (SHEET P-1)
1. ALL INTERIOR UNDERGROUND CW & HW PIPING TO BE TYPE "K" SOFT COPPER ASTM B88.
 2. 3/4" GAS DROP ALONG WALL TO BELOW CABINET COUNTERTOP. RUN 3/4" LINE IN CABINET TO OUTLETS. GAS COCK OUTLETS FURNISHED BY OTHERS, INSTALLED BY PLUMBING CONTRACTOR.
 3. 1-1/2" CW & 3/4" HW HEADERS IN CHASE. INSTALL 3/4" CW DROPS TO EWC, LAVATORY, URINAL AND SHOWER. INSTALL 1-1/4" CW DROP TO FLUSH VALVE. INSTALL 3/4" HW DROP TO LAVATORY AND SHOWER. INSTALL 3/4" CW & HW DROPS TO BELOW FLOOR SERVING ISLAND AND SOUTH WALL SINKS WITH SHUTOFF VALVES. PROVIDE ACCESS DOOR FOR VALVES. LOCATE TO PROVIDE PROPER ACCESS.
 4. 3/4" CW PIPE BELOW FLOOR TO FLOOR DRAIN IN LAB. TRAP PRIMER SHALL BE CONNECTED TO 1-1/2" CW HEADER IN CHASE W/ 2 BRANCH DROPS TO BELOW FLOOR.
 5. 3/4" CW & HW W/ SHUTOFF VALVES TO "WATER STILL". COORDINATE LOCATION WITH ARCHITECT.
 6. 1-1/2" CW AND 3/4" HW DROPS FROM ABOVE CEILING INTO CHASE. KEEP CW MAIN AS HIGH AS POSSIBLE.
 7. 1-1/2" CW BRANCH STUBBED THRU CHASE WALL APPROX. 5'-5" A.F.F. FOR EMERGENCY SHOWER/EYEWASH FURNISHED BY OTHERS, INSTALLED BY PLUMBING CONTRACTOR.



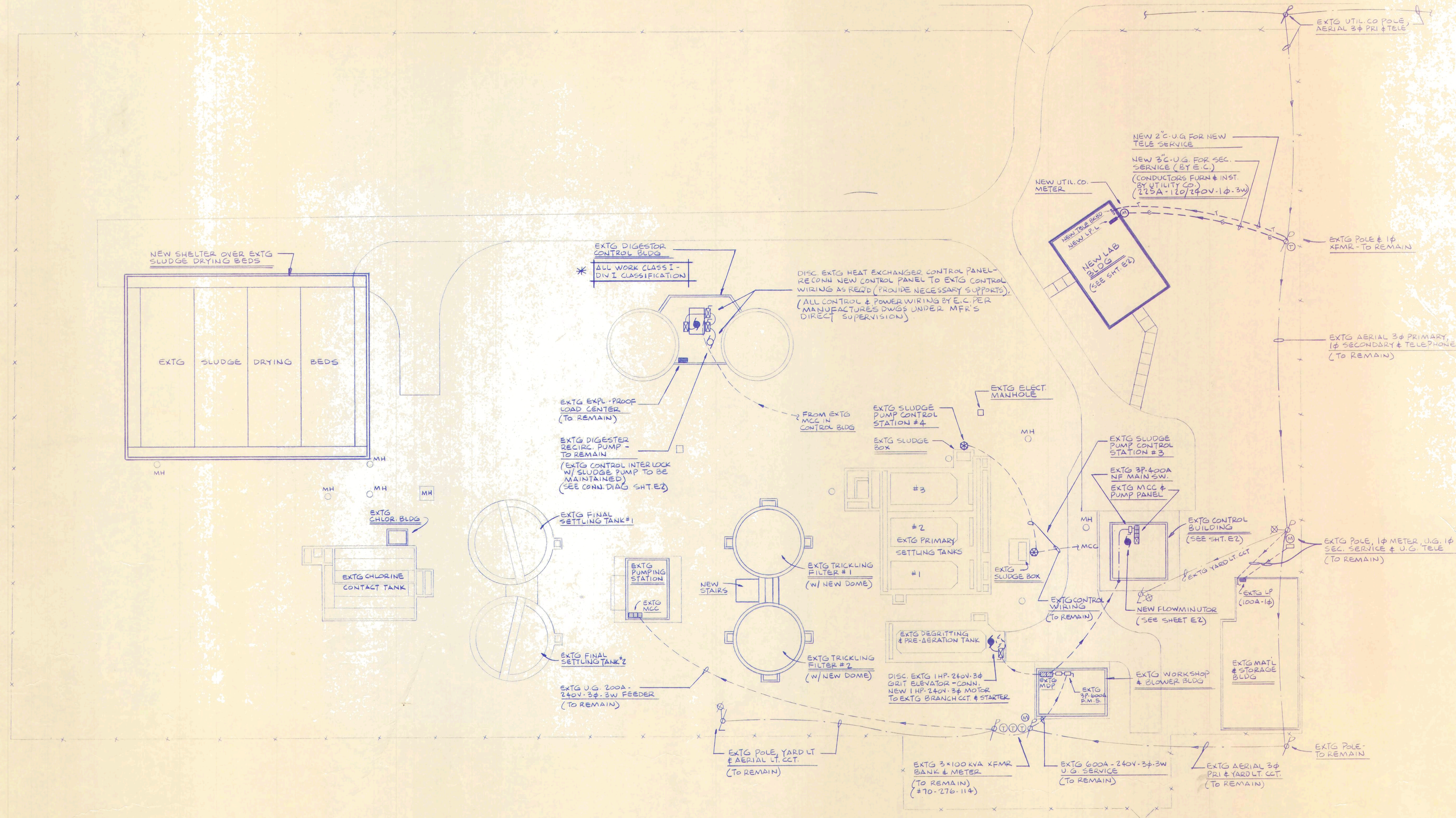
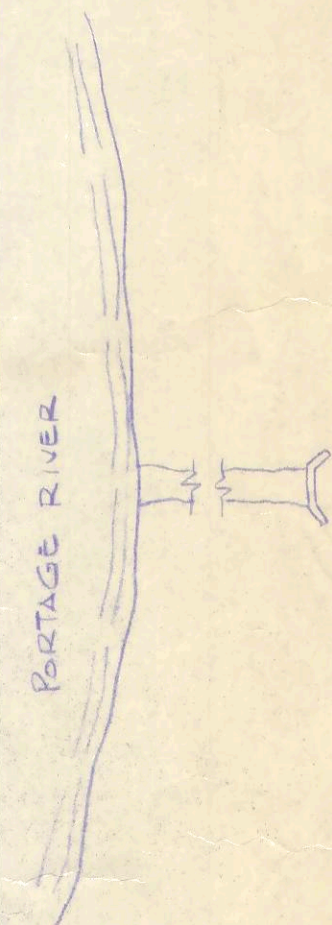
*can not do
would like to run under floor
if possible so drop is not coming
down from ceiling in middle of
room. If it has to be dropped
from ceiling, would like for it
to be at other end of island.*

FLOOR PLAN
SCALE: 1/4" = 1'-0"
FIN. FL. ELEV. = 100.00'

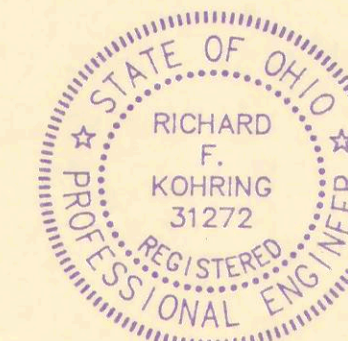


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PLUMBING PLAN & DETAILS



SITE PLAN
SCALE: 1"=20'



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POGEMEYER DESIGN GROUP, INC.
PLANNERS
BOWLING GREEN, OHIO 43402

**WASTEWATER TREATMENT
PLANT IMPROVEMENTS**
OAK HARBOR, OHIO

REVISIONS	

EXISTING DRAWN BY	PROPOSED DRAWN BY	CHECKED BY	APPROVED BY
	FGK	FGK	

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OF 2
JOB NUMBER
1590-008